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United States
Department of
Agriculture

Natural
Resources
Conservation
Service

Washington Basin Outlook Report April 1, 1995



Basin Outlook Reports

and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points.

Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Washington Water Supply Outlook

APRIL 1995

General Outlook

On average, March temperatures were near normal with only slight variations across the state. National Weather Service climate stations indicated much above average precipitation for Eastern Washington and near average for Western Washington. SNOTEL showed near normal snow accumulations in March. On average most SNOTEL sites will hit their peak within the next month. Some low elevation sites are showing normal decreases in accumulated snowpack. As of April 10 no sites have completely melted out.

Snowpack

The April 1 statewide SNOTEL reading showed that the snowpack is 110% of average, down slightly from the March 1 reading of 112%. The Spokane-Pend Oreille River Basins remain below average with only 72% of normal snowpack, 10% less than last month. The east slope of the Cascade Mountains remains strong with 163% of normal along the Entiat River, 140% on the Methow, 125% of average for Chelan Lake Basin, and 115% for the Wenatchee Basin. The Yakima River Basin is near normal at 109% of average. Westside averages vary greatly with a high of 120% of average on the White River Basin to as low as 24% of average in the lower elevations of the Cedar River. Snow measurement points within the Olympic Mountain River Basins stayed about the same with 59% on the Elwha River, 96% for Morse Creek, 69% for the Dungeness and 111% of average for the Quilcene. High reading in the state was at Salmon Meadows SNOTEL near Conconully with 171% normal snowpack. Low reading for established SNOTEL sites was at the Cougar Mountain SNOTEL near Howard Hanson Reservoir, with only 18% of normal.

| BASIN | PERCENT OF LAST YEAR | PERCENT OF AVERAGE |
|------------------------|----------------------|--------------------|
| Spokane..... | 120..... | 72 |
| Colville..... | 148..... | 120 |
| Pend Oreille..... | 117..... | 79 |
| Okanogan..... | 137..... | 104 |
| Methow..... | 190..... | 140 |
| Wenatchee..... | 137..... | 115 |
| Chelan..... | 167..... | 125 |
| Yakima..... | 130..... | 109 |
| Walla Walla..... | 120..... | 99 |
| Cowlitz..... | 116..... | 99 |
| Lewis..... | 106..... | 96 |
| White..... | 137..... | 120 |
| Green..... | 107..... | 69 |
| North Puget Sound..... | 140..... | 100 |
| Olympic Peninsula..... | 120..... | 92 |

Precipitation

Reports from National Weather Service stations showed much of Eastern Washington to be greater than 150% of normal precipitation for March. Western Washington had near normal precipitation. Accumulated precipitation from October 1, 1994 remains above average for most of Eastern Washington with some central locations much above average. Most of the Westside is closer to normal. Year-to-date precipitation ranges from 141% of normal in the Wenatchee-Chelan River Basins, to 103% in the Olympic Peninsula River Basins. March basin reports range from 161% of normal in the Okanogan - Methow River Basin to only 76% of average in the White - Green - Cedar. SNOTEL sites in Washington showed high elevation water year precipitation values to be 122% of average on April 10. Maximum reportable precipitation was again at the June Lake SNOTEL site near Mount St. Helens, with 162.5 inches since October 1. This puts June Lake at 95% of the normal March accumulation and 137% of average for the year.

| BASIN | MARCH PERCENT OF AVERAGE | WATER YEAR PERCENT OF AVERAGE |
|----------------------------|-----------------------------|----------------------------------|
| Spokane..... | 132..... | 113 |
| Colville-Pend Oreille..... | 144..... | 118 |
| Okanogan-Methow..... | 161..... | 130 |
| Wenatchee-Chelan..... | 112..... | 141 |
| Yakima..... | 90..... | 123 |
| Walla Walla..... | 92..... | 126 |
| Cowlitz-Lewis..... | 109..... | 122 |
| White-Green-Cedar..... | 76..... | 107 |
| North Puget Sound..... | 93..... | 111 |
| Olympic Peninsula..... | 91..... | 103 |

Reservoir

Overall storage is looking very good across the state. Only a few reservoirs remain below average. Reservoir storage in the Yakima Basin was 680,100 acre feet, 92% of normal and 229% of last year. Storage at other reservoirs included Roosevelt and Banks at 185% of average, and the Okanogan reservoirs at 105% of normal for April 1. The power generation reservoirs include the following: Coeur d'Alene Lake, 201,500 acre feet, or 118% of normal; Chelan Lake, 270,400 acre feet, 127% of average and 40% of capacity, and Ross Lake at 213% of average and 45% of capacity.

| BASIN | PERCENT OF CAPACITY | PERCENT OF AVERAGE |
|----------------------------|---------------------|--------------------|
| Spokane..... | 84..... | 118 |
| Colville-Pend Oreille..... | 67..... | 185 |
| Okanogan-Methow..... | 67..... | 105 |
| Wenatchee-Chelan..... | 40..... | 127 |
| Yakima..... | 64..... | 92 |
| North Puget Sound..... | 45..... | 213 |

For more information contact your local Natural Resources Conservation Service office.

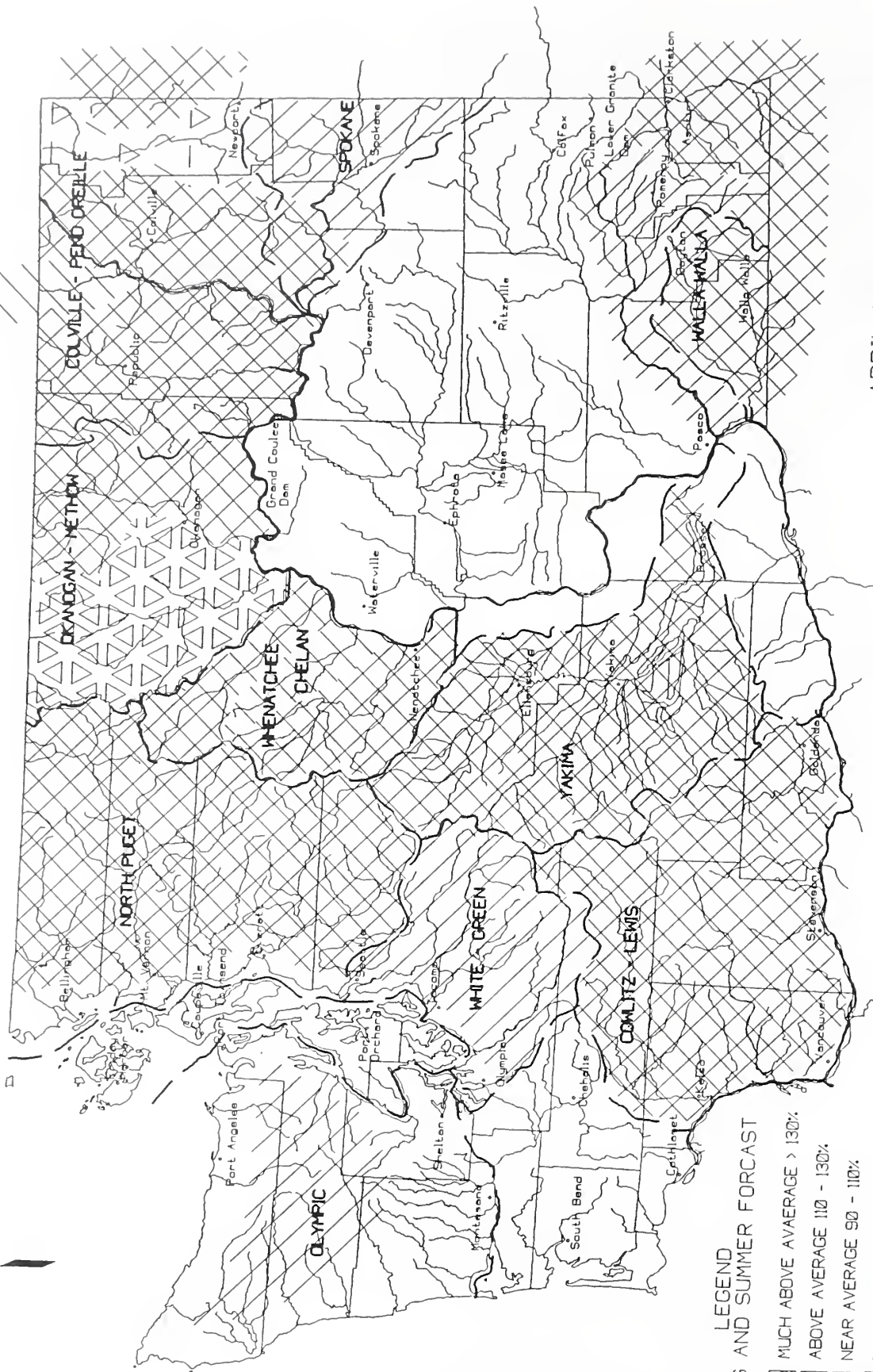
Streamflow

Forecasted flows for April - September vary greatly across the state. A high of 137% of average for Salmon Creek near Conconully to a low of 66% of normal for the Pend Oreille River can be expected. April forecasts for some Western Washington streams include: Cedar River at Cedar Falls, 83%; Green River, 74%; and the Dungeness River, 87%, all holding close to the same as last month. Some Eastern Washington streams include Mill Creek at Walla Walla, 99%; the Wenatchee River at Peshastin, 100%; and the Colville River, 106%. March streamflows remained high throughout the state. The Kettle River at Laurier had the highest March flows with 226% of average, and the Lewis River at Ariel with 95% of normal was the lowest in the state. Other streamflows were the following percentage of normal: the Cowlitz River, 110%; the Okanogan River, 156%; the Spokane River, 150%; the Columbia at the Canadian border, 134%, the Skagit near Concrete, 124% and the Yakima River at Kiona, 150%. No flooding was reported this month.

BASIN

PERCENT OF AVERAGE
MOST PROBABLE FORECAST
(50 PERCENT CHANCE OF EXCEEDANCE)

| | |
|----------------------------|---------|
| Spokane..... | 71-73 |
| Colville-Pend Oreille..... | 66-112 |
| Okanogan-Methow..... | 102-137 |
| Wenatchee-Chelan..... | 92-120 |
| Yakima..... | 90-109 |
| Walla Walla..... | 92-99 |
| Cowlitz-Lewis..... | 92-107 |
| White-Green-Cedar..... | 74-92 |
| North Puget Sound..... | 98-109 |
| Olympic Peninsula..... | 86-87 |



LEGEND

SPRING AND SUMMER FORECAST

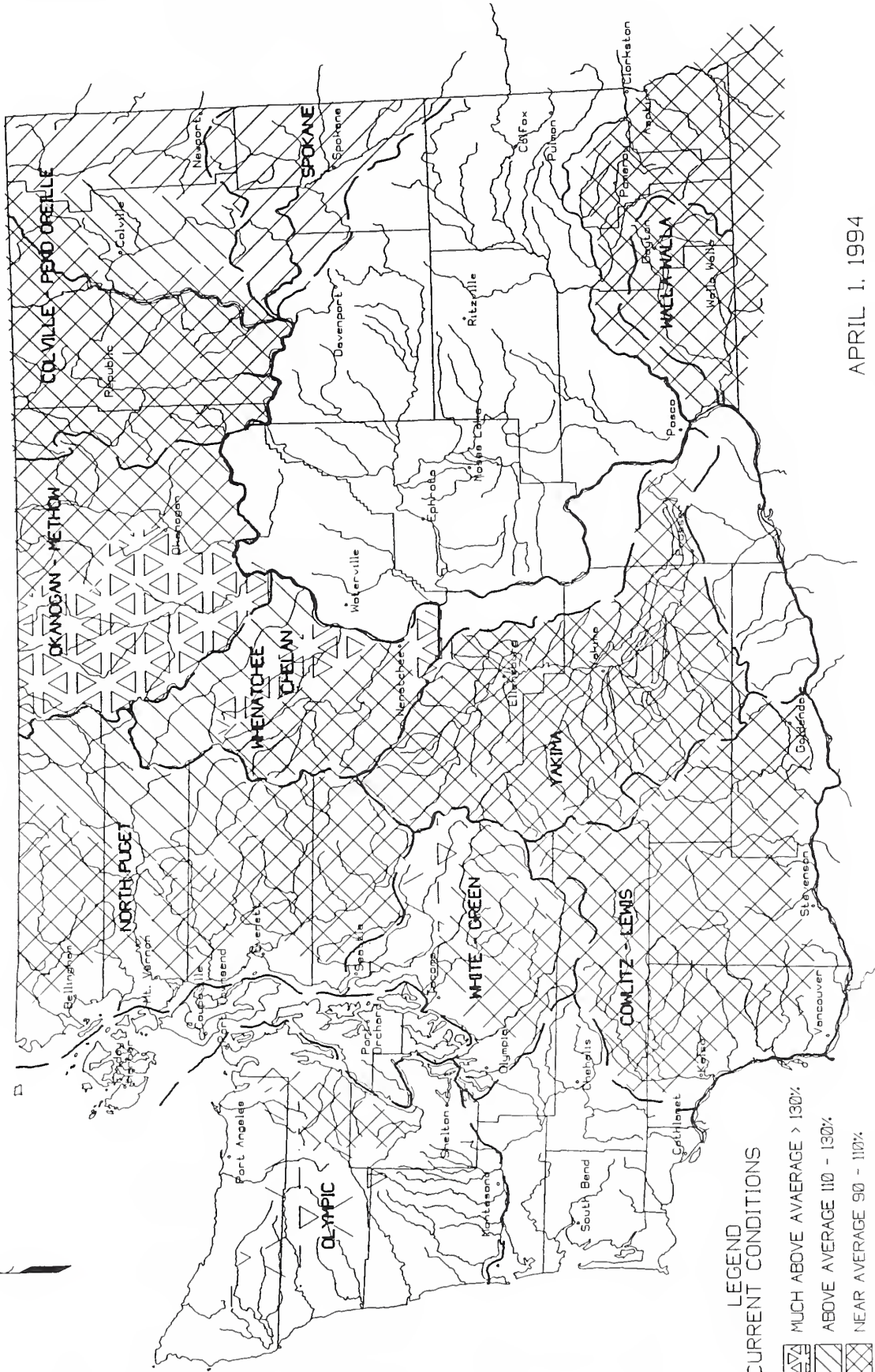
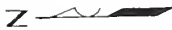
- MUCH ABOVE AVERAGE > 130%
- ABOVE AVERAGE 110 - 130%
- NEAR AVERAGE 90 - 110%
- BELOW AVERAGE 70 - 90%
- MUCH BELOW AVERAGE < 70%
- NOT FORECASTED

WATERSHED BOUNDARY

APRIL 1, 1995

STREAMFLOW PROSPECTS WASHINGTON

NTS



LEGEND
CURRENT CONDITIONS

- MUCH ABOVE AVERAGE > 130%
- ABOVE AVERAGE 110 - 130%
- NEAR AVERAGE 90 - 110%
- BELOW AVERAGE 70 - 90%
- MUCH BELOW AVERAGE < 70%
- NOT FORCASTED
- WATERSHED BOUNDARY

APRIL 1, 1994
MOUNTAIN SNOWPACK
WASHINGTON

BASIN SUMMARY OF SNOW COURSE DATA APRIL 1995

| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-90 | SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-90 |
|-----------------------|-----------|---------|------------|---------------|-----------|-----------------|------------------------|-----------|---------|------------|---------------|-----------|-----------------|
| PEND OREILLE RIVER | | | | | | | MINERS RIDGE PILLOW | 6200 | 4/01/95 | --- | 55.6S | 40.7 | 52.2 |
| BENTON MEADOW | 2370 | 3/31/95 | 0 | .0 | 1.2 | 3.8 | PARK CREEK RIDGE | 4600 | 3/27/95 | 122 | 52.9 | 34.9 | 43.1 |
| BENTON SPRING | 4920 | 3/31/95 | 38 | 15.4 | 12.6 | 18.6 | PARK CK RIDGE PILLOW | 4600 | 4/01/95 | --- | 40.0S | 24.6 | 41.6 |
| BOYER MOUNTAIN | 5250 | 3/30/95 | 69 | 26.2 | 18.6 | 25.7 | RAINY PASS | 4780 | 3/31/95 | 107 | 42.4 | 31.0 | 39.3 |
| BUNCHGRASS MEADOWS | 5000 | 3/27/95 | 80 | 26.7 | 25.2 | 29.5 | RAINY PASS PILLOW | 4780 | 4/01/95 | --- | 52.6S | 31.1 | 38.0 |
| BUNCHGRASS MDWPILLOW | 5000 | 4/01/95 | --- | 32.0 | 24.3 | 26.6 | ENTIAT RIVER | | | | | | |
| CHEWALAH | 4930 | 3/30/95 | 54 | 20.0 | 14.4 | 16.1 | BRIEF | 1600 | 3/30/95 | 12 | 4.7 | .0 | 2.5 |
| HEART LAKE TRAIL | 4800 | 3/28/95 | 39 | 13.1 | 13.8 | 21.6 | POPE RIDGE PILLOW | 3540 | 4/01/95 | --- | 25.0S | 12.2 | 15.7 |
| HOODOO BASIN | 6050 | 3/28/95 | 106 | 39.9 | 30.4 | 51.0 | WENATCHEE RIVER | | | | | | |
| HOODOO CREEK | 5900 | 3/28/95 | 87 | 32.2 | 25.2 | 46.3 | BERNE-MILL CREEK (d) | 3170 | 3/30/95 | 76 | 30.1 | 27.5 | 27.2 |
| LOOKOUT PILLOW | 5140 | 4/01/95 | --- | 25.2 | 21.4 | 33.4 | BLEWETT PASS #2 | 4270 | 3/27/95 | 37 | 13.6 | 10.3 | 15.1 |
| NELSON CAN. | 3100 | 3/29/95 | 43 | 16.2 | 16.1 | 15.5 | BLEWETT PASS#2PILLOW | 4270 | 4/01/95 | --- | 18.6S | 12.7 | 17.8 |
| KETTLE RIVER | | | | | | | CHIWAUKUM G.S. | 2500 | 3/30/95 | 41 | 13.4 | 11.2 | 8.9 |
| BARNES CREEK CAN. | 5300 | 3/28/95 | 56 | 19.2 | 22.1 | 20.6 | FISH LAKE PILLOW | 3370 | 4/01/95 | --- | 35.0S | 28.8 | 31.9 |
| BIG WHITE MTN CAN. | 5510 | 4/01/95 | 62 | 23.3 | 17.6 | 19.4 | LYMAN LAKE | 5900 | 3/27/95 | 167 | 69.3 | 45.9 | 58.7 |
| BUTTE CREEK | 4070 | 3/28/95 | 28 | 8.7 | 5.7 | 9.0 | LYMAN LAKE PILLOW | 5900 | 4/01/95 | --- | 75.1S | 45.8 | 56.9 |
| CARM | 4100 | 4/01/95 | 16 | 5.7 | 4.7 | 6.4 | MERRITT | 2140 | 3/30/95 | 40 | 15.3 | 7.0 | 12.8 |
| FARRON CAN. | 4000 | 3/27/95 | 37 | 13.3 | 11.2 | 13.9 | MERRITT RIDGE | 5000 | 3/31/95 | 56 | 20.1 | 13.9 | 16.5 |
| GOAT CREEK | 3600 | 3/28/95 | 13 | 4.2 | .9 | 4.3 | STEVENS PASS PILLOW | 4070 | 4/01/95 | --- | 46.4S | 39.6 | 42.3 |
| GRAYSTOKE LAKE CAN. | 5940 | 4/04/95 | 41 | 13.9 | 13.5 | 17.6 | STEVENS PASS SAND SD | 3700 | 3/30/95 | 75 | 32.6 | 25.6 | 33.7 |
| MONASHEE PASS CAN. | 4500 | 3/28/95 | 36 | 13.3 | 11.2 | 14.0 | TROUGH #2 PILLOW | 5310 | 4/01/95 | --- | 15.1S | 7.0 | 9.7 |
| SUMMIT G.S. | 4600 | 3/28/95 | 30 | 8.9 | 4.9 | 8.1 | UPPER WHEELER | 4400 | 3/29/95 | 12 | 4.8 | .9 | 7.8 |
| TRAPPING CK LOW CAN. | 3050 | 4/01/95 | 6 | 1.7 | 3.9 | 3.5 | UPPER WHEELER PILLOW | 4400 | 4/01/95 | --- | 17.2S | 10.0 | 13.6 |
| TRAPPING CK UP CAN. | 4460 | 4/1/95 | 16 | 6.0 | 7.8 | 9.8 | SQUILCHUCK CREEK | | | | | | |
| COLVILLE RIVER | | | | | | | STEMILT CREEK | | | | | | |
| BAIRD #2 | 3220 | 3/27/95 | 24 | 8.5 | 6.9 | -- | STEMILT SLIDE | 5000 | 3/29/95 | 37 | 13.8 | 9.0 | 12.8 |
| STRANGER MOUNTAIN | 4230 | 3/28/95 | 40 | 14.1 | 9.9 | 12.2 | UPPER WHEELER | 4400 | 3/29/95 | 12 | 4.8 | .9 | 7.8 |
| TOGO | 3370 | 4/01/95 | --- | 12.9E | 7.5 | 10.8 | UPPER WHEELER PILLOW | 4400 | 4/01/95 | --- | 17.2S | 10.0 | 13.6 |
| OMAK LAKE, TWIN LAKES | | | | | | | COLOCKUM CREEK | | | | | | |
| MOSES MOUNTAIN (1) | 4800 | 3/29/95 | 51 | 18.0 | 12.0 | 13.5 | TROUGH #2 PILLOW | 5310 | 4/01/95 | --- | 15.1S | 7.0 | 9.7 |
| MOSES MTN PILLOW | 4800 | 4/01/95 | --- | 26.6S | 7.9 | 15.5 | YAKIMA RIVER | | | | | | |
| MOSES MEADOWS (3) | 3800 | 3/29/95 | 0 | .0 | .0 | -- | BIG BOULDER CREEK | 3200 | 4/01/95 | --- | 19.2E | 16.6 | 17.8 |
| MOSES PEAK (2) | 6650 | 3/29/95 | 89 | 15.6 | 12.0 | 5.7 | BLEWETT PASS #2 | 4270 | 3/27/95 | 37 | 13.6 | 10.3 | 15.1 |
| MOUNT TOLMAN | 2000 | 3/28/95 | 0 | .0 | .0 | -- | BLEWETT PASS#2PILLOW | 4270 | 4/01/95 | --- | 18.6S | 12.7 | 17.8 |
| TWIN LAKES | 2700 | 3/28/95 | 15 | 3.7 | .0 | 5.2 | BUMPING LAKE | 3450 | 3/29/95 | 42 | 16.0 | 11.2 | 14.2 |
| SPOKANE RIVER | | | | | | | BUMPING LAKE (NEW) | 3400 | 4/01/95 | --- | 21.0E | 15.1 | 18.3 |
| FOURTH OF JULY SUM | 3200 | 3/27/95 | 0 | .0 | .0 | 6.8 | BUMPING RIDGE PILLOW | 4600 | 4/01/95 | --- | 25.4S | 23.5 | 21.2 |
| LOST LAKE (d) | 6110 | 4/01/95 | --- | 46.0E | 31.5 | 57.0 | CAYUSE PASS | 5300 | 4/01/95 | --- | 89.0E | 75.8 | 82.4 |
| MOSQUITO RDG PILLOW | 5200 | 4/01/95 | --- | 32.5 | 24.0 | 37.3 | COLOCKUM PASS | 5370 | 3/27/95 | 57 | 21.0 | 12.6 | 16.5 |
| SUNSET | 5540 | 3/30/95 | 42 | 15.3 | 15.9 | 31.8 | CORRAL PASS PILLOW | 6000 | 4/01/95 | --- | 34.6S | 26.6 | 32.6 |
| SUNSET PILLOW | 5540 | 4/01/95 | --- | 20.8 | 20.5 | 37.6 | FISH LAKE | 3370 | 3/29/95 | 78 | 33.7 | 28.3 | 31.4 |
| LOOKOUT PILLOW | 5140 | 4/01/95 | --- | 25.2 | 21.4 | 33.4 | FISH LAKE PILLOW | 3370 | 4/01/95 | --- | 35.0S | 28.8 | 31.9 |
| NEWMAN LAKE | | | | | | | GREEN LAKE | 6000 | 4/01/95 | --- | 43.6E | 30.0 | 33.9 |
| QUARTZ PEAK PILLOW | 4700 | 4/01/95 | --- | 23.9 | 16.2 | 21.9 | GREEN LAKE PILLOW | 6000 | 4/01/95 | --- | 26.6S | 18.3 | 20.7 |
| RAGGED RIDGE | 3330 | 3/27/95 | 0 | .0 | .0 | 3.5 | GROUSE CAMP PILLOW | 5380 | 4/01/95 | --- | 24.3S | 15.5 | 19.8 |
| OKANOGAN RIVER | | | | | | | DOMMERIE FLATS | 2200 | 3/30/95 | 1 | .5 | -- | 4.3 |
| ABERDEEN LAKE CAN. | 4300 | 3/31/95 | 13 | 4.6 | 4.3 | 6.1 | LOST HORSE PILLOW | 5000 | 4/01/95 | --- | 20.4S | 16.0 | 26.4 |
| BLACKWALL PEAK CAN. | 6370 | 4/01/95 | --- | 33.7 | -- | 33.8 | MORSE LAKE PILLOW | 5400 | 4/01/95 | --- | 71.5S | 39.9 | 47.2 |
| BRENDA MINE CAN. | 4800 | 3/28/95 | 42 | 12.9 | 8.4 | 13.0 | OLALLIE MDWS PILLOW | 3960 | 4/01/95 | --- | 43.0S | 39.7 | 53.5 |
| BROOKMERE CAN. | 3200 | 3/29/95 | 24 | 7.3 | 3.6 | 8.6 | OLALLIE MEADOWS | 3630 | 3/29/95 | 45 | 24.2 | 28.7 | 44.8 |
| ENDERBY CAN. | 6200 | 3/31/95 | 95 | 35.8 | 37.8 | 38.6 | SASSE RIDGE PILLOW | 4200 | 4/01/95 | --- | 40.0S | 30.0 | 32.1 |
| ESPERON CK. UP CAN. | 5410 | 3/31/95 | 56 | 18.8 | 15.2 | 18.7 | STAMPEDE PASS PILLOW | 3860 | 4/01/95 | --- | 49.9S | 36.5 | 44.4 |
| ESPERON CK. MID CAN. | 4690 | 3/31/95 | 48 | 16.3 | 13.1 | 15.5 | TUNNEL AVENUE | 2450 | 3/28/95 | 50 | 21.3 | 16.4 | 20.8 |
| FREEZEOUT CK. TRAIL | 3500 | 3/30/95 | 27 | 9.3 | 6.8 | 11.5 | WHITE PASS ES PILLOW | 4500 | 4/01/95 | --- | 25.5S | 20.7 | 22.9 |
| GREYBACK RES CAN. | 5120 | 3/29/95 | 33 | 10.1 | 8.0 | 9.1 | AHTANUM CREEK | | | | | | |
| HAMILTON HILL CAN. | 4890 | 4/01/95 | 32 | 11.4 | 9.3 | 15.1 | GREEN LAKE | 6000 | 4/01/95 | --- | 43.6E | 30.0 | 33.9 |
| HARTS PASS | 6500 | 3/31/95 | 119 | 46.9 | 30.7 | 42.6 | GREEN LAKE PILLOW | 6000 | 4/01/95 | --- | 26.6S | 18.3 | 20.7 |
| HARTS PASS PILLOW | 6500 | 4/01/95 | --- | 53.2S | 30.3 | 41.3 | LOST HORSE PILLOW | 5000 | 4/01/95 | --- | 20.4S | 16.0 | 26.4 |
| ISINTOK LAKE CAN. | 5500 | 3/30/95 | 27 | 7.7 | 3.7 | 7.6 | MILL CREEK | | | | | | |
| LIGHTNING LAKE CAN. | 4000 | 4/01/95 | 33 | 11.2 | 6.1 | 12.7 | HIGH RIDGE PILLOW | 4980 | 4/01/95 | --- | 23.6S | 20.8 | 24.4 |
| LOST HORSE MTN CAN. | 6300 | 3/30/95 | 37 | 9.9 | -- | 9.5 | TOUCHET #2 PILLOW | 5530 | 4/01/95 | --- | 32.3 | 25.9 | 31.9 |
| MCCULLOCH CAN. | 4200 | 3/30/95 | 17 | 2.8 | 4.7 | 6.7 | LEWIS - COWLITZ RIVERS | | | | | | |
| MISSEZULA MTN CAN. | 5090 | 3/31/95 | 31 | 10.0 | 5.7 | 9.4 | CAYUSE PASS | 5300 | 4/01/95 | --- | 89.0E | 75.8 | 82.4 |
| MISSION CREEK CAN. | 5800 | 4/01/95 | --- | 18.1 | 18.9 | 20.4 | JUNE LAKE PILLOW | 3200 | 4/01/95 | --- | 31.0S | 28.7 | 36.3 |
| MONASHEE PASS CAN. | 4500 | 3/28/95 | 36 | 13.3 | 11.2 | 14.0 | LONE PINE PILLOW | 3800 | 4/01/95 | --- | 31.5S | 28.9 | 32.1 |
| MT. KOBAU CAN. | 5900 | 3/30/95 | 59 | 17.7 | 9.6 | 12.9 | PARADISE PARK PILLOW | 5500 | 4/01/95 | --- | 72.5S | 57.7 | 62.1 |
| MUTTON CREEK #1 | 5700 | 3/30/95 | 60 | 21.5 | 11.2 | 13.2 | PIGTAIL PEAK PILLOW | 5900 | 4/01/95 | --- | 47.5S | 37.6 | 49.3 |
| OYAMA LAKE CAN. | 4400 | 3/30/95 | 23 | 6.9 | 6.4 | 7.0 | POTATO HILL PILLOW | 4500 | 4/01/95 | --- | 23.2S | 22.0 | 25.3 |
| POSTILL LAKE CAN. | 4500 | 3/31/95 | 28 | 9.3 | 8.0 | 9.0 | SHEEP CANYON PILLOW | 4050 | 4/01/95 | --- | 22.3S | 30.1 | 39.8 |
| RUSTY CREEK | 4000 | 3/30/95 | 22 | 6.9 | 2.4 | 5.9 | SPENCER MDW PILLOW | 3400 | 4/01/95 | --- | 28.1S | 29.5 | 29.6 |
| SALMON MDWS PILLOW | 4500 | 4/01/95 | --- | 16.1S | 7.5 | 9.4 | SPIRIT LAKE PILLOW | 3100 | 4/01/95 | --- | 3.8S | .8 | 3.6 |
| SILVER STAR MTN CAN. | 6000 | 3/31/95 | 78 | 30.7 | 29.1 | 29.2 | SURPRISE LKS PILLOW | 4250 | 4/01/95 | --- | 45.3S | 41.5 | 44.2 |
| SUMMERLAND RES CAN. | 4200 | 3/29/95 | 30 | 9.6 | 4.3 | 9.5 | WHITE PASS ES PILLOW | 4500 | 4/01/95 | --- | 25.5S | 20.7 | 22.9 |
| SUNDAY SUMMIT CAN. | 4300 | 4/01/95 | 5 | 1.5 | .7 | 4.7 | WHITE RIVER | | | | | | |
| TROUT CREEK CAN. | 4690 | 3/30/95 | 21 | 7.0 | 2.9 | 7.2 | CAYUSE PASS | 5300 | 4/01/95 | --- | 89.0E | 75.8 | 82.4 |
| VASEUX CREEK CAN. | 4600 | 3/28/95 | 20 | 6.1 | 6.1 | 6.6 | CORRAL PASS | 6000 | 3/30/95 | 85 | 35.7 | 29.2 | 40.1 |
| WHITE ROCKS MTN CAN. | 6000 | 3/31/95 | 70 | 25.6 | 17.0 | 23.9 | CORRAL PASS PILLOW | 6000 | 4/01/95 | --- | 34.6S | 26.6 | 32.6 |
| METHOW RIVER | | | | | | | MORSE LAKE PILLOW | 5400 | 4/01/95 | --- | 71.5S | 39.9 | 47.2 |
| HARTS PASS | 6500 | 3/31/95 | 119 | 46.9 | 30.7 | 42.6 | GREEN RIVER | | | | | | |
| HARTS PASS PILLOW | 6500 | 4/01/95 | --- | 53.2S | 30.3 | 41.3 | COUGAR MTN. PILLOW | 3200 | 4/01/95 | --- | 5.0S | 8.7 | 18.8 |
| MUTTON CREEK #1 | 5700 | 3/30/95 | 60 | 21.5 | 11.2 | 13.2 | GRASS MOUNTAIN #2 | 2900 | 3/29/95 | 0 | .0 | .0 | 15.9 |
| RUSTY CREEK | 4000 | 3/30/95 | 22 | 6.9 | 2.4 | 5.9 | LESTER CREEK | 3100 | 3/29/95 | 50 | 17.5 | 18.2 | 23.3 |
| SALMON MDWS PILLOW | 4500 | 4/01/95 | --- | 16.1S | 7.5 | 9.4 | LYNN LAKE | 4000 | 3/29/95 | 18 | 7.4 | 11.2 | 22.0 |
| CHELAN LAKE BASIN | | | | | | | SAWMILL RIDGE | 4700 | 3/29/95 | 76 | 31.7 | 21.5 | 36.3 |
| CLOUDY PASS AM | 6500 | 3/27/95 | 155 | 64.3 | 30.2 | 42.1 | STAMPEDE PASS PILLOW | 3860 | 4/01/95 | --- | 49.9S | 36.5 | 44.4 |
| LYMAN LAKE | 5900 | 3/27/95 | 167 | 69.3 | 45.9 | 58.7 | TWIN CAMP | 4100 | 3/29/95 | 40 | 16.9 | 24.0 | 25.1 |
| LYMAN LAKE PILLOW | 5900 | 4/01/95 | --- | 75.1S | 45.8 | 56.9 | CEDAR RIVER | | | | | | |
| LITTLE MDWS AM | 5280 | 3/27/95 | 142 | 58.9 | 38.7 | 44.0 | CITY CABIN | 2390 | 4/01/95 | --- | 3.4E | .0 | 13.6 |

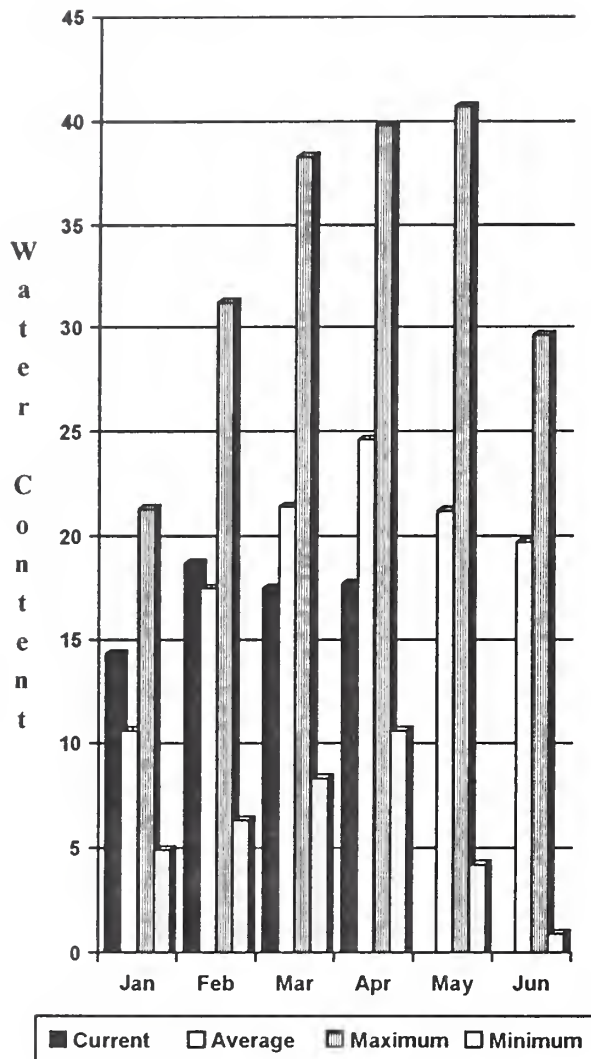
| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-90 |
|----------------------|-----------|---------|---------------|------------------|--------------|--------------------|
| MT. GARDNER | 3300 | 4/01/95 | --- | 3.3E | 7.0 | 14.1 |
| MT. GARDNER PILLOW | 2860 | 4/01/95 | --- | 3.3S | 9.1 | 14.0 |
| TINKHAM CREEK PILLOW | 3000 | 4/01/95 | --- | 22.6S | 22.5 | 19.9 |
| MEADOWS PASS PILLOW | 3240 | 4/01/95 | --- | 67.0S | 11.0 | 24.9 |
| SNOQUALMIE RIVER | | | | | | |
| ALPINE MEADOWS | 3500 | 4/01/95 | --- | 39.3E | 31.0 | 43.7 |
| OLALLIE MDWS PILLOW | 3960 | 4/01/95 | --- | 43.0S | 39.7 | 53.5 |
| OLALLIE MEADOWS | 3630 | 3/29/95 | 45 | 24.2 | 28.7 | 44.8 |
| SKYKOMISH RIVER | | | | | | |
| STAMPEDE PASS PILLOW | 3860 | 4/01/95 | --- | 49.9S | 36.5 | 44.4 |
| STEVENS PASS PILLOW | 4070 | 4/01/95 | --- | 46.4S | 39.6 | 42.3 |
| STEVENS PASS SAND SD | 3700 | 3/30/95 | 75 | 32.6 | 25.6 | 33.7 |
| SKAGIT RIVER | | | | | | |
| BEAVER CREEK TRAIL | 2200 | 3/31/95 | 25 | 10.4 | 6.8 | 11.6 |
| BEAVER PASS | 3680 | 3/31/95 | 79 | 32.4 | 23.4 | 29.7 |
| BROWN TOP AM | 6000 | 3/30/95 | 164 | 66.2 | 50.4 | 59.6 |
| CLOUDY PASS AM | 6500 | 3/27/95 | 155 | 64.3 | 30.2 | 42.1 |
| DEVILS PARK | 5900 | 3/30/95 | 117 | 48.4 | 5.7 | 42.9 |
| FREEZEOUT CK. TRAIL | 3500 | 3/30/95 | 27 | 9.3 | 6.8 | 11.5 |
| HARTS PASS | 6500 | 3/31/95 | 119 | 46.9 | 30.7 | 42.6 |
| HARTS PASS PILLOW | 6500 | 4/01/95 | --- | 53.2S | 30.3 | 41.3 |
| KLESILKWA CAN. | 3710 | 3/28/95 | 11 | 4.8 | 2.9 | 12.4 |
| LIGHTNING LAKE CAN. | 4000 | 4/01/95 | 33 | 11.2 | 6.1 | 12.7 |
| LYMAN LAKE | 5900 | 3/27/95 | 167 | 69.3 | 45.9 | 58.7 |
| LYMAN LAKE PILLOW | 5900 | 4/01/95 | --- | 75.1S | 45.8 | 56.9 |

| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-90 |
|----------------------|-----------|---------|---------------|------------------|--------------|--------------------|
| MEADOWS CABIN | 1900 | 4/01/95 | 0 | .0 | .8 | 4.8 |
| NEW HOZOMEEN LAKE | 2800 | 3/30/95 | 14 | 6.2 | 20.0 | 10.4 |
| RAINY PASS | 4780 | 3/31/95 | 107 | 42.4 | 31.0 | 39.3 |
| RAINY PASS PILLOW | 4780 | 4/01/95 | --- | 52.6S | 31.1 | 38.0 |
| THUNDER BASIN | 4200 | 4/01/95 | 57 | 22.4 | 20.0 | 34.7 |
| THUNDER BASIN PILLOW | 4200 | 4/01/95 | --- | 32.9S | 27.0 | -- |
| BAKER RIVER | | | | | | |
| DOCK BUTTE AM | 3800 | 3/27/95 | 128 | 59.0 | 41.0 | 65.4 |
| EASY PASS AM | 5200 | 3/27/95 | 206 | 97.0 | 68.0 | 82.9 |
| JASPER PASS AM | 5400 | 3/27/95 | 210 | 94.0 | 61.6 | 86.0 |
| MARTEN LAKE AM | 3600 | 3/27/95 | 142 | 70.0 | 54.0 | 73.4 |
| MT. BLUM AM | 5800 | 3/27/95 | 158 | 71.0 | 50.4 | 63.1 |
| ROCKY CREEK AM | 2100 | 3/27/95 | 58 | 31.0 | 14.4 | 27.8 |
| SCHREIBERS MDW AM | 3400 | 3/27/95 | 100 | 49.0 | 39.4 | 58.8 |
| SF THUNDER CK AM | 2200 | 3/27/95 | --- | .00 | .0 | 4.9 |
| WATSON LAKES AM | 4500 | 3/27/95 | 116 | 56.0 | 48.0 | 64.9 |
| ELWHA RIVER | | | | | | |
| HURRICANE | 4500 | 3/30/95 | 35 | 13.0 | 14.8 | 22.1 |
| MORSE CREEK | | | | | | |
| COX VALLEY | 4500 | 3/31/95 | 91 | 37.9 | 32.0 | 39.5 |
| DUNGENESS RIVER | | | | | | |
| DEER PARK | 5200 | 3/29/95 | 36 | 14.4 | 13.0 | 20.9 |
| QUILCENE RIVER | | | | | | |
| MOUNT CRAG PILLOW | 4050 | 4/01/95 | --- | 35.0S | 27.0 | 31.5 |
| WYNOOCHEE RIVER | | | | | | |

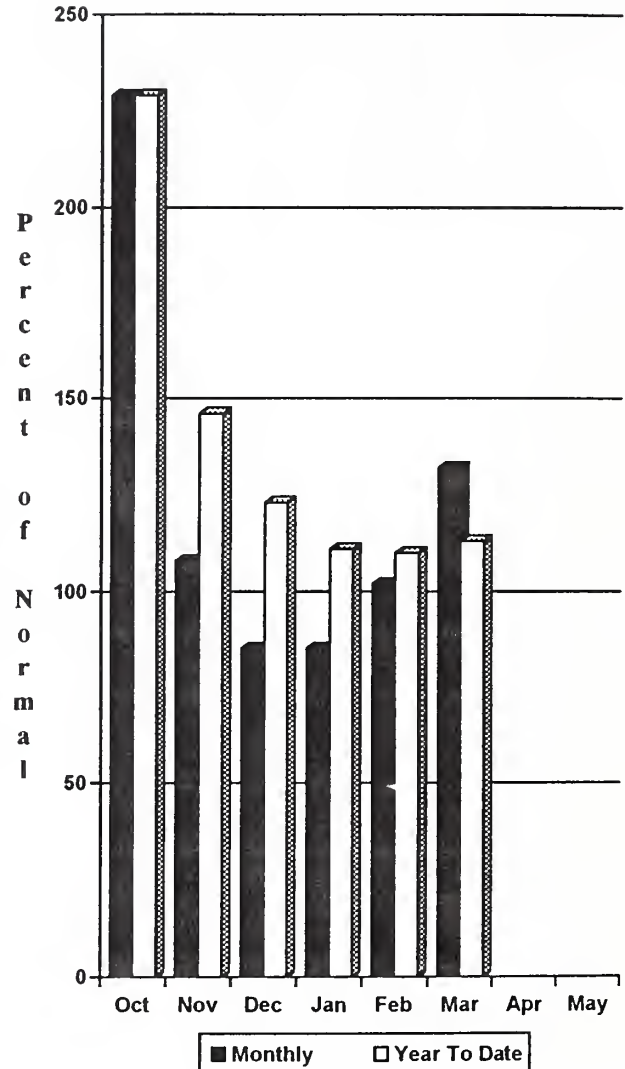
(d) Denotes discontinued site.

Spokane River Basin

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

The April 1 forecasts for summer runoff on the Spokane River at Long Lake are 73% of normal, down 10% from last month at this time. The forecast is based on a basin snowpack that is 72% of average and precipitation that is 113% of normal for the water year. Precipitation for March was 132% of average. Streamflow on the Spokane River was 150% of average for March. April 1 storage in Coeur d'Alene Lake was 201,500 acre feet, 118% of normal, and 84% of capacity. Temperatures in the basin were 1 degree above normal during March.

For more information contact your local Natural Resources Conservation Service office.

SPOKANE RIVER BASIN

Streamflow Forecasts - April 1, 1995

| | | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
|-----------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | 30-Yr Avg. (1000AF) |
| SPOKANE near Post Falls (2) | APR-SEP | 1310 | 1750 | 1930 | 71 | 2110 | 2570 | 2730 |
| | APR-JUL | 1410 | 1670 | 1850 | 70 | 2030 | 2290 | 2633 |
| SPOKANE at Long Lake | APR-JUL | 1640 | 1930 | 2122 | 72 | 2320 | 2610 | 2936 |
| | APR-SEP | 1810 | 2110 | 2315 | 73 | 2520 | 2820 | 3159 |

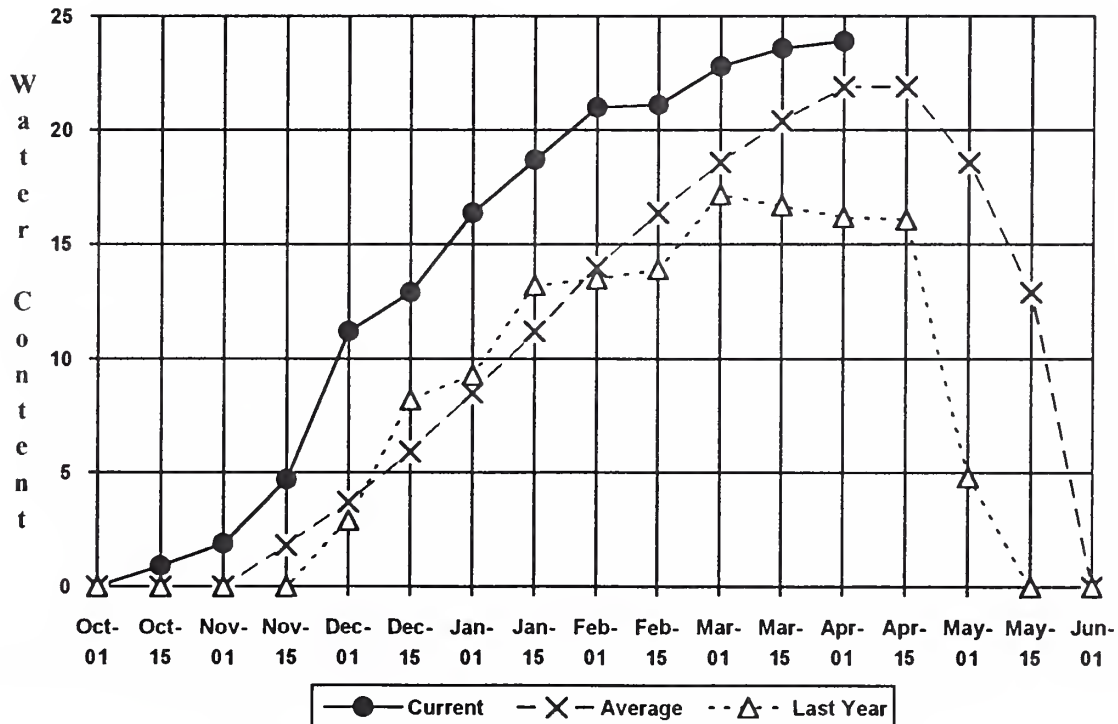
| SPOKANE RIVER BASIN Reservoir Storage (1000 AF) - End of March | | | | | SPOKANE RIVER BASIN Watershed Snowpack Analysis - April 1, 1995 | | |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-----------------------------------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of Last Yr Average |
| | | This Year | Last Year | Avg | | | |
| COEUR D'ALENE | 238.5 | 201.5 | 105.5 | 170.1 | Spokane River | 20 | 120 |

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

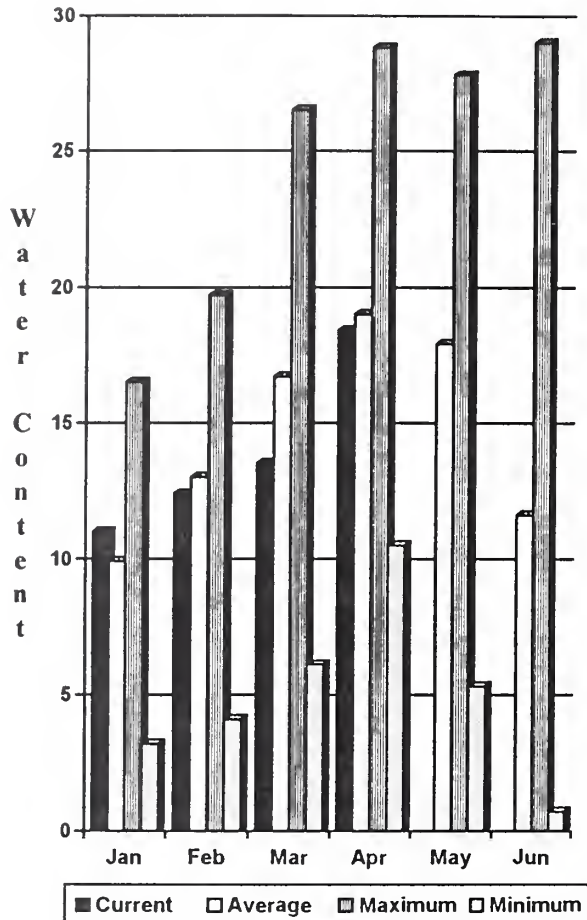
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural flow - actual flow may be affected by upstream water management.

Quartz Peak SNOTEL Elevation 4700 ft.

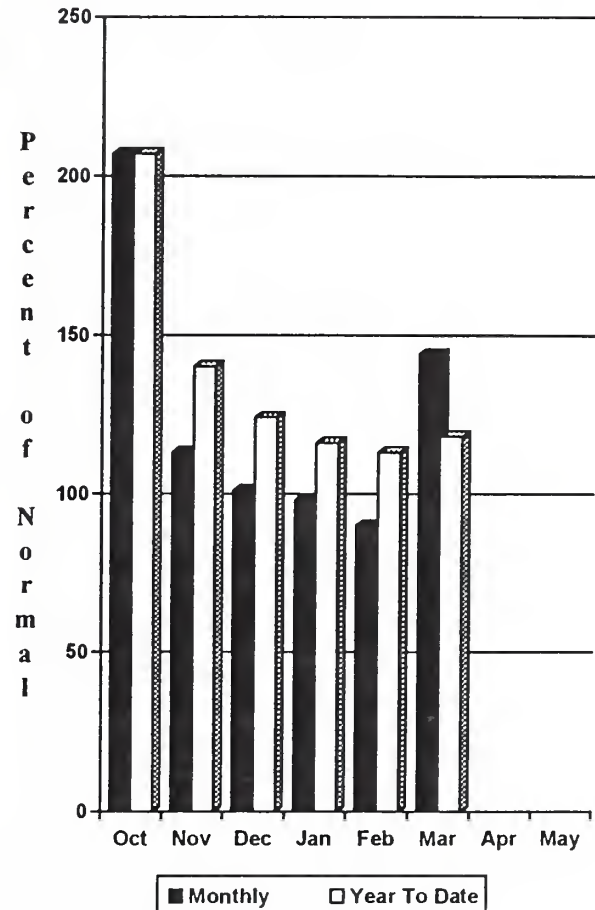


Colville - Pend Oreille River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

The forecast for the Kettle River streamflow is for 112% of normal, the Pend Oreille below Box Canyon, 66%. The forecast for the Priest River near the town of Priest River is 91% of normal for the summer runoff period. Forecasts for points on the Columbia River, at Birchbank, are 97% and at Grand Coulee Dam, 89% of average. March streamflow was 143% of normal on the Pend Oreille River, 134% on the Columbia at the International Boundary, and 226% on the Kettle River. April 1 snow cover was 79% of normal for the Pend Oreille Basin, 120% of normal for the Colville River Basin and 93% of normal on the Kettle River. Snowpack at Bunchgrass Meadows SNOTEL site contained 32 inches of water, compared to the average April 1 reading of 27 inches. Precipitation during March was 144% of average, bringing the water year-to-date to 118% of normal. Temperatures were near normal for March.

For more information contact your local Natural Resources Conservation Service office.

COLVILLE - PEND OREILLE RIVER BASINS

Streamflow Forecasts - April 1, 1995

| | | <----- Drier ----- Future Conditions ----- Wetter -----> | | | | | | |
|-----------------------------------|-----------------|--|-----------------|---------------------------------|---------|-----------------|-----------------|------------------------|
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | % AVG.) | 30% (1000AF) | 10% (1000AF) | |
| PEND OREILLE Lake Inflow (1,2) | APR-JUL | 6030 | 7850 | 8680 | 66 | 9510 | 11300 | 13150 |
| | APR-SEP | 6580 | 8570 | 9480 | 66 | 10400 | 12400 | 14370 |
| | APR-JUN | 5020 | 6740 | 7520 | 66 | 8300 | 10000 | 11390 |
| PRIEST nr Priest River (1,2) | APR-JUL | 535 | 675 | 740 | 91 | 805 | 945 | 814 |
| | APR-SEP | 570 | 720 | 790 | 91 | 860 | 1010 | 868 |
| PEND OREILLE b1 Box Canyon (1,2) | APR-JUL | 6380 | 8050 | 8810 | 66 | 9570 | 11200 | 13380 |
| | APR-SEP | 6960 | 8780 | 9610 | 66 | 10400 | 12300 | 14590 |
| | APR-JUN | 5550 | 6990 | 7640 | 66 | 8290 | 9730 | 11570 |
| CHAMOKANE CK nr Long Lake | MAY-AUG | 4.9 | 7.9 | 9.9 | 105 | 11.9 | 14.9 | 9.4 |
| COLVILLE at Kettle Falls | APR-SEP | 91 | 119 | 139 | 106 | 158 | 186 | 131 |
| | APR-JUL | 87 | 111 | 127 | 106 | 143 | 167 | 120 |
| | APR-JUN | 84 | 105 | 120 | 108 | 135 | 156 | 111 |
| KETTLE near Laurier | APR-SEP | 1630 | 1960 | 2080 | 112 | 2200 | 2480 | 1854 |
| | APR-JUL | 1340 | 1490 | 1590 | 90 | 1690 | 1840 | 1761 |
| | APR-JUN | 1520 | 1650 | 1742 | 110 | 1830 | 1960 | 1585 |
| COLUMBIA at Birchbank (1,2) | APR-JUL | 29900 | 32800 | 34100 | 97 | 35400 | 38300 | 35140 |
| | APR-SEP | 37200 | 40900 | 42500 | 97 | 44100 | 47800 | 43810 |
| | APR-JUN | 21900 | 24000 | 24900 | 97 | 25800 | 27900 | 25670 |
| COLUMBIA at Grand Coulee Dm (1,2) | APR-SEP | 49500 | 55300 | 58000 | 89 | 60700 | 66500 | 64850 |
| | APR-JUL | 41100 | 46100 | 48300 | 89 | 50500 | 55500 | 54543 |
| | APR-JUN | 32400 | 36300 | 38000 | 89 | 39700 | 43600 | 42756 |

COLVILLE - PEND OREILLE RIVER BASINS Reservoir Storage (1000 AF) - End of March

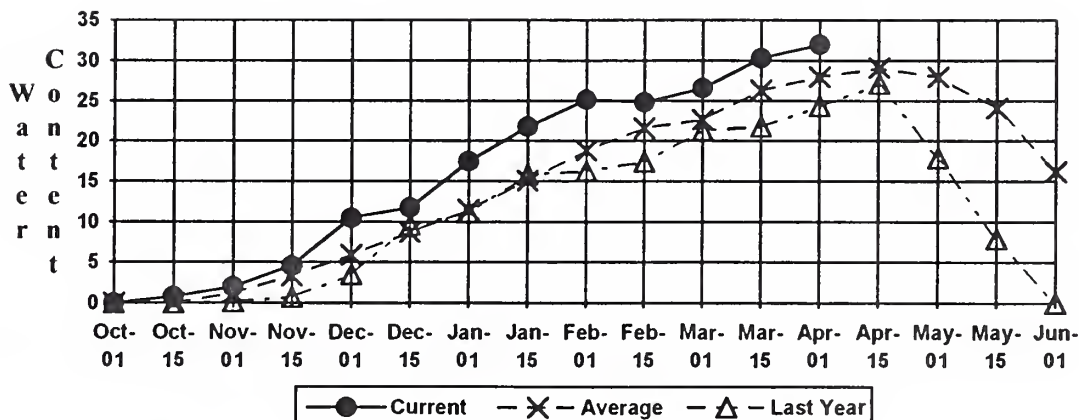
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
|-----------|-----------------|------------------------|-----------|--------|--------------------|----------------------|-------------------|---------|
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| ROOSEVELT | 5232.0 | 3313.7 | 3644.2 | 1586.0 | Colville River | 3 | 148 | 120 |
| BANKS | 715.0 | 688.2 | 665.5 | 583.0 | Pend Oreille River | 111 | 117 | 79 |
| | | | | | Kettle River | 11 | 114 | 93 |

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

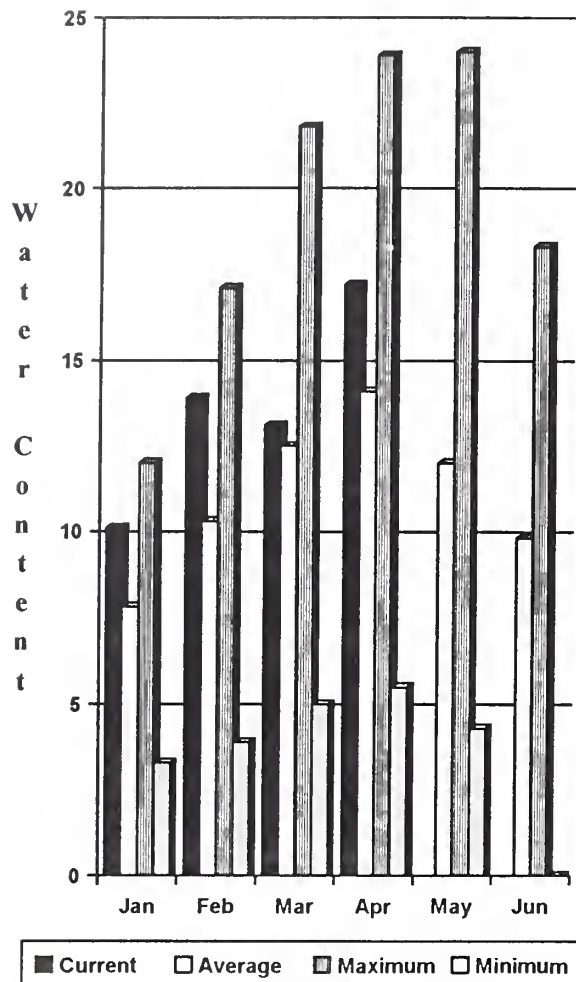
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural flow - actual flow may be affected by upstream water management.

Bunchgrass Meadow SNOTEL Elevation 5000 ft.

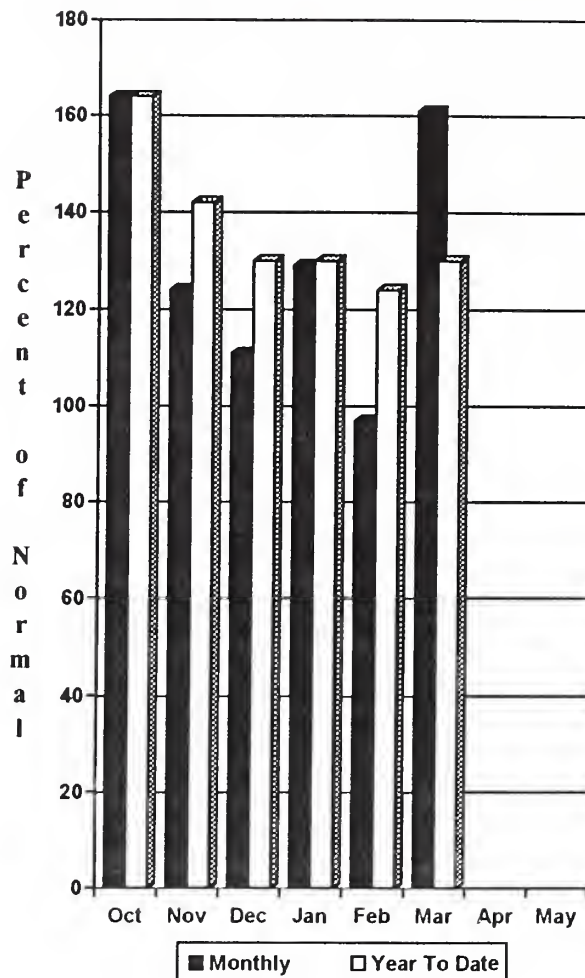


Okanogan - Methow River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

Summer runoff forecast for the Okanogan River is 103% of normal; the Similkameen River, 102%, the Methow River, 131%; and Salmon Creek, 137% of normal. April 1 snow cover on the Okanogan was 104% of normal, and the Methow, 140%. March precipitation in the Okanogan-Methow was 161% of normal, with water year-to-date at 130% of average. March streamflow on the Methow River was 129% of normal, 156% on the Okanogan River, and 121% on the Similkameen. Snow water content at the Harts Pass SNOTEL, elevation 6500 feet, was 54 inches; normal for this site is 42.2 inches. Temperatures were near normal for March. Storage in the Salmon Creek Reservoirs near Conconully was 15,700 acre feet, which is 67% of capacity and 105% of the April 1 average.

For more information contact your local Natural Resources Conservation Service office.

OKANOGAN - METHOW RIVER BASINS Streamflow Forecasts - April 1, 1995

| Forecast Point | Forecast Period | <----- Drier ----- | | Future Conditions | | ----- Wetter ----->> | | 30-Yr Avg. (1000AF) |
|--------------------------------|-----------------|--------------------|----------|---------------------|-----------------------|----------------------|----------|------------------------|
| | | 90% | 70% | 50% (Most Probable) | Chance Of Exceeding * | 30% | 10% | |
| | | (1000AF) | (1000AF) | (1000AF) | (% AVG.) | (1000AF) | (1000AF) | |
| SIMILKAMEEN nr Nighthawk (1) | APR-SEP | 1060 | 1340 | 1430 | 102 | 1520 | 1800 | 1399 |
| | APR-JUL | 1050 | 1240 | 1330 | 102 | 1420 | 1610 | 1304 |
| | APR-JUN | 865 | 1050 | 1135 | 102 | 1220 | 1400 | 1113 |
| OKANOGAN RIVER nr Tonasket (1) | APR-SEP | 1100 | 1490 | 1670 | 103 | 1850 | 2220 | 1624 |
| | APR-JUL | 1010 | 1360 | 1525 | 104 | 1690 | 2040 | 1467 |
| | APR-JUN | 885 | 1160 | 1280 | 104 | 1400 | 1680 | 1234 |
| SALMON CREEK near Conconully | APR-JUL | 14.7 | 22 | 26 | 138 | 31 | 38 | 19.1 |
| | APR-SEP | 15.1 | 22 | 27 | 137 | 32 | 40 | 20 |
| METHOW RIVER near Pateros | APR-SEP | 1040 | 1180 | 1230 | 131 | 1280 | 1410 | 942 |
| | APR-JUL | 1080 | 1140 | 1180 | 135 | 1220 | 1280 | 873 |
| | APR-JUN | 910 | 970 | 1010 | 135 | 1050 | 1110 | 746 |

| OKANOGAN - METHOW RIVER BASINS Reservoir Storage (1000 AF) - End of March | | | | | OKANOGAN - METHOW RIVER BASINS Watershed Snowpack Analysis - April 1, 1995 | | | |
|--|-----------------|------------------------|-----------|-----|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| SALMON LAKE | 10.5 | 8.1 | 9.0 | 8.0 | Okanogan River | 28 | 137 | 104 |
| CONCONULLY RESERVOIR | 13.0 | 7.6 | 9.6 | 7.0 | Methow River | 4 | 190 | 140 |

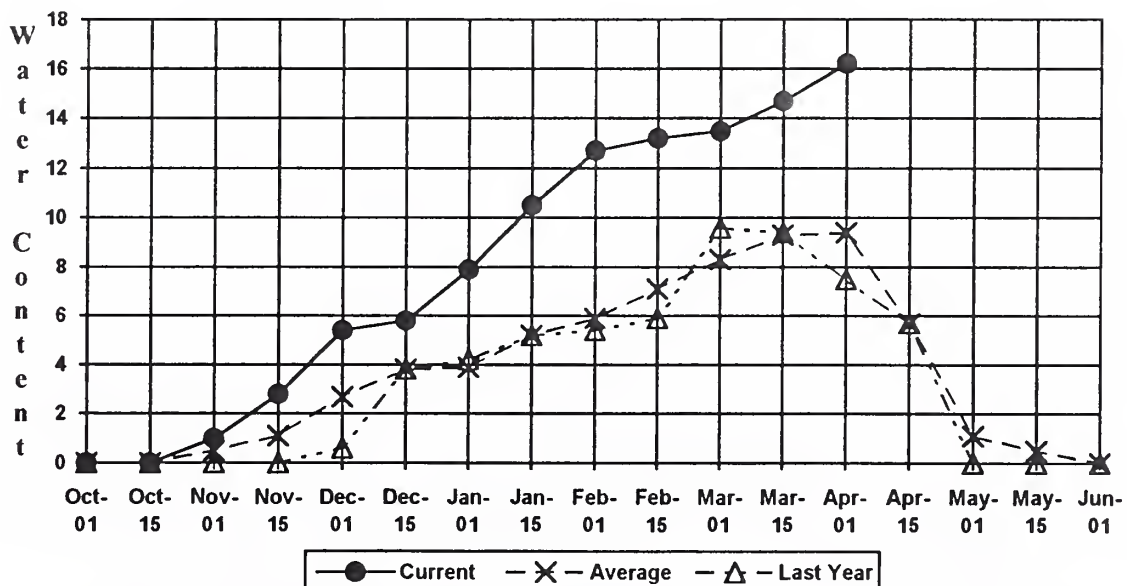
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

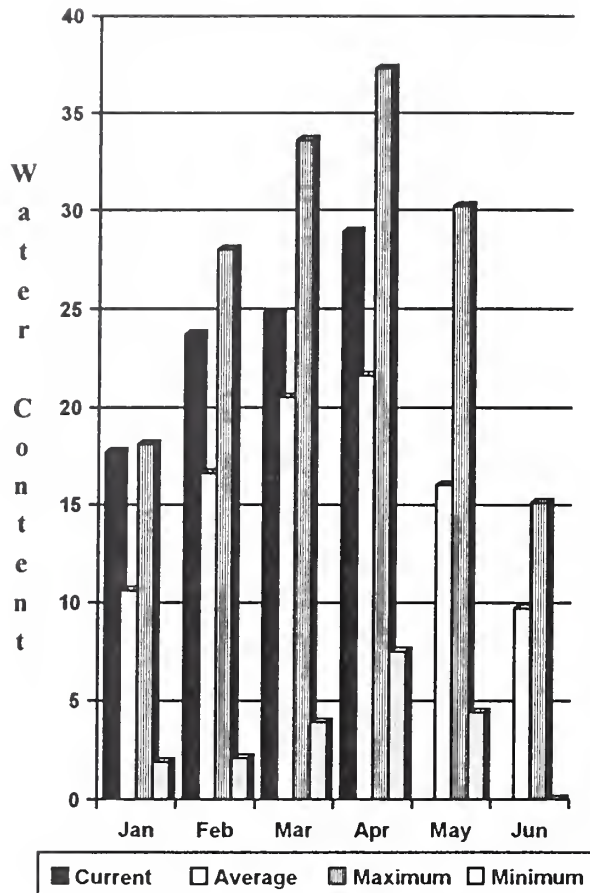
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Salmon Meadows SNOTEL Elevation 4500 ft.

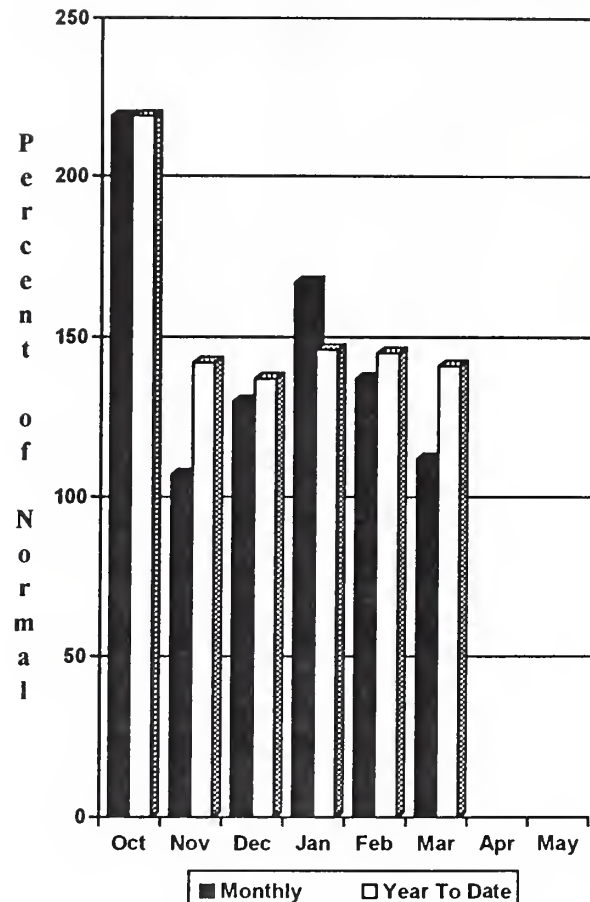


Wenatchee - Chelan River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

Precipitation during March was 112% of normal in the basin and 141% for the year to date. Runoff for the Entiat River is forecast to be 120% of normal for the summer. The April-September forecast for the Chelan River is for 104%, near normal for the Wenatchee River, and 105% on the Stehekin. Icicle Creek is forecast to be 109% of normal this summer. Streamflow for March on the Chelan River was 148% of average, and on the Wenatchee River it was 156% of normal. April 1 snowpack in the Wenatchee Basin was 115% of average, which is 137% of last year. The Chelan Basin was 125% of average, and Stemilt Creek at 117% of normal. Snowpack on the Entiat River was at 163% of average. Reservoir storage in Lake Chelan was 270,400 acre feet or 127% of April 1 average and 40% of capacity. Lyman Lake SNOTEL had the most snow water in the basin with 75.1 inches of water. This site would normally have 56.9 inches.

For more information contact your local Natural Resources Conservation Service office.

WENATCHEE - CHELAN RIVER BASINS

Streamflow Forecasts - April 1, 1995

| | | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
|------------------------------------|-----------------|--|--------------|------------------------------|----------|--------------|--------------|---------------------|
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| ===== | | | | | | | | |
| CHELAN RIVER near Chelan | APR-SEP | 1070 | 1150 | 1210 | 104 | 1270 | 1350 | 1160 |
| | APR-JUL | 975 | 1050 | 1094 | 107 | 1140 | 1210 | 1024 |
| | APR-JUN | 745 | 815 | 861 | 106 | 910 | 980 | 812 |
| ===== | | | | | | | | |
| STEHEKIN near STEHEKIN | APR-SEP | 775 | 830 | 870 | 105 | 910 | 965 | 827 |
| | APR-JUL | 665 | 710 | 741 | 106 | 775 | 820 | 701 |
| | APR-JUN | 480 | 525 | 558 | 104 | 590 | 635 | 538 |
| ===== | | | | | | | | |
| ENTIAT RIVER near Ardenvoir | APR-SEP | 245 | 260 | 272 | 120 | 280 | 295 | 227 |
| | APR-JUL | 225 | 240 | 250 | 121 | 260 | 275 | 206 |
| | APR-JUN | 182 | 196 | 205 | 122 | 215 | 230 | 169 |
| ===== | | | | | | | | |
| WENATCHEE at Plain | APR-SEP | 1130 | 1220 | 1277 | 107 | 1330 | 1420 | 1190 |
| | APR-JUL | 1030 | 1100 | 1143 | 107 | 1190 | 1260 | 1072 |
| | APR-JUN | 845 | 900 | 939 | 109 | 975 | 1030 | 864 |
| ===== | | | | | | | | |
| WENATCHEE R. at Peshastin | APR-SEP | 1120 | 1430 | 1640 | 100 | 1850 | 2180 | 1636 |
| | APR-JUL | 1000 | 1280 | 1470 | 99 | 1660 | 1940 | 1485 |
| | APR-JUN | 830 | 1050 | 1205 | 100 | 1360 | 1580 | 1204 |
| ===== | | | | | | | | |
| STEMILT nr Wenatchee (miners in) | MAY-SEP | 106 | 132 | 150 | 109 | 168 | 194 | 138 |
| ===== | | | | | | | | |
| ICICLE CREEK nr Leavenworth | APR-SEP | 290 | 360 | 405 | 109 | 455 | 525 | 370 |
| | APR-JUL | 270 | 335 | 377 | 111 | 420 | 485 | 340 |
| | APR-JUN | 215 | 265 | 300 | 111 | 335 | 385 | 270 |
| ===== | | | | | | | | |
| COLUMBIA R. bl Rock Island Dam (2) | APR-SEP | 55400 | 60900 | 64700 | 92 | 68500 | 74000 | 70485 |
| | APR-JUL | 46400 | 51100 | 54300 | 91 | 57500 | 62200 | 59736 |
| | APR-JUN | 36600 | 40300 | 42800 | 91 | 45300 | 49000 | 47007 |

| WENATCHEE - CHELAN RIVER BASINS Reservoir Storage (1000 AF) - End of March | | | | | WENATCHEE - CHELAN RIVER BASINS Watershed Snowpack Analysis - April 1, 1995 | | | |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| CHELAN LAKE | 676.1 | 270.4 | 109.4 | 212.1 | Chelan Lake Basin | 5 | 167 | 125 |
| | | | | | Entiat River | 2 | 243 | 163 |
| | | | | | Wenatchee River | 13 | 137 | 115 |
| | | | | | Squilchuck Creek | 0 | 0 | 0 |
| | | | | | Stemilt Creek | 2 | 163 | 117 |
| | | | | | Colockum Creek | 1 | 216 | 156 |

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

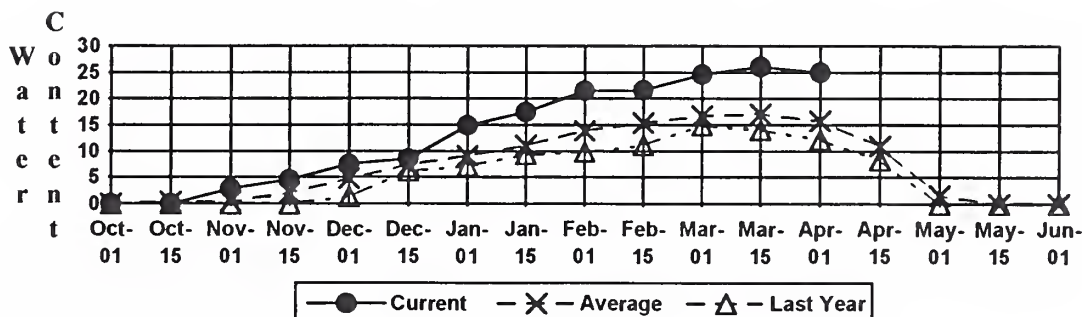
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

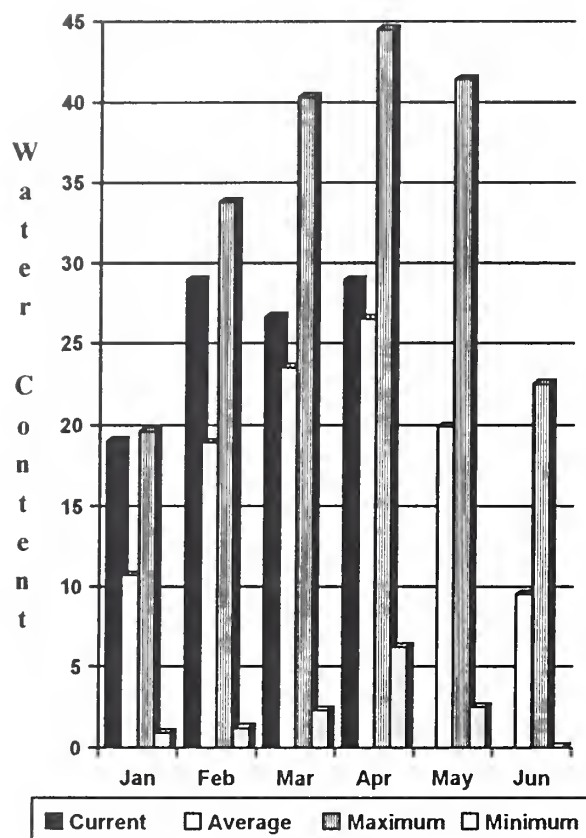
Pope Ridge SNOTEL

Elevation 3540 ft.

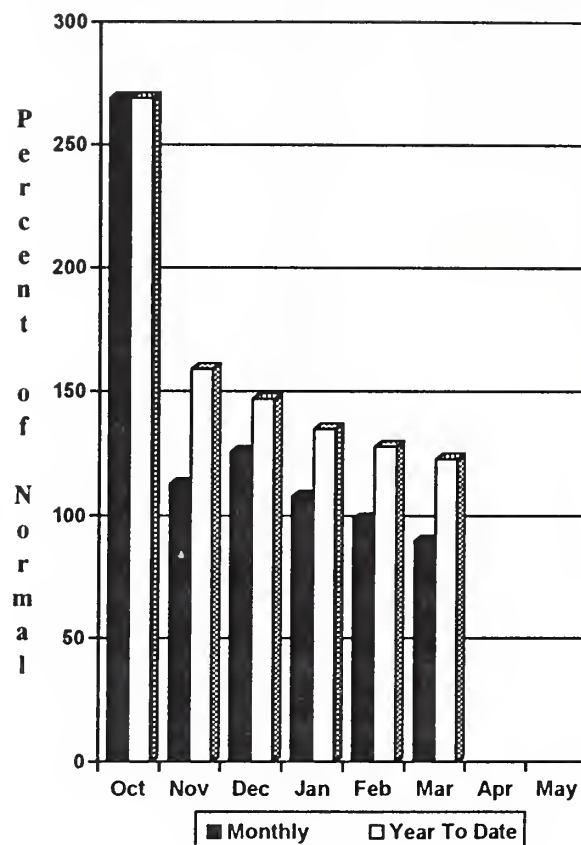


Yakima River Basin

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

April 1 reservoir storage for the five major reservoirs was 680,100 acre feet, 92% of average and 64% of capacity. April 1 summer streamflow forecasts are for near normal in the Yakima Basin. Forecasts for the Yakima River at Cle Elum are for 90% of normal. Naches River, 107%; the Yakima River at Parker, 95%; Ahtanum Creek, 96%, and the Tieton River, 107%. The Klickitat River near Glenwood is forecast for 107% of normal flow this summer. March streamflows remained above normal with the Yakima River at Parker 152% of normal, 130% for the Yakima near Cle Elum, and 153% for the Naches River. April 1 snowpack was 109% based upon 21 snow course and SNOTEL readings within the Yakima Basin. Snow surveys also reported 129% of average snowpack for Ahtanum Creek. March precipitation was 90% of normal and 123% for the water year-to-date. Temperatures were average for March. Volume forecasts for the Yakima Basin are for natural flow. As such, they may differ from the U.S. Bureau of Reclamation's forecast for the total water supply available, which includes irrigation return flow.

For more information contact your local Natural Resources Conservation Service office.

YAKIMA RIVER BASIN

Streamflow Forecasts - April 1, 1995

| | | <<===== Drier ===== | | Future Conditions ===== | | Wetter =====>> | | |
|------------------------------|-----------------|-----------------------|-----------------|--|-----|-----------------|-----------------|------------------------|
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) (% AVG.) | | 30% (1000AF) | 10% (1000AF) | |
| | | <<===== Drier ===== | | Future Conditions ===== | | Wetter =====>> | | |
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) (% AVG.) | | 30% (1000AF) | 10% (1000AF) | |
| KEECHELUS LAKE INFLOW | APR-JUL | 98 | 108 | 115 | 93 | 122 | 132 | 124 |
| | APR-SEP | 111 | 117 | 125 | 93 | 133 | 139 | 135 |
| | APR-JUN | 83 | 94 | 101 | 93 | 108 | 119 | 109 |
| KACHESS LAKE INFLOW | APR-JUL | 89 | 97 | 102 | 92 | 108 | 116 | 111 |
| | APR-SEP | 93 | 102 | 108 | 92 | 114 | 122 | 118 |
| | APR-JUN | 77 | 86 | 92 | 93 | 99 | 108 | 99 |
| CLE ELUM LAKE INFLOW | APR-JUL | 350 | 370 | 386 | 94 | 400 | 425 | 409 |
| | APR-SEP | 385 | 420 | 435 | 97 | 450 | 485 | 448 |
| | APR-JUN | 290 | 310 | 327 | 95 | 345 | 365 | 345 |
| YAKIMA at Cle Elum | APR-JUN | 575 | 620 | 651 | 90 | 685 | 730 | 721 |
| | APR-JUL | 680 | 720 | 750 | 90 | 780 | 820 | 832 |
| | APR-SEP | 725 | 790 | 820 | 90 | 850 | 905 | 915 |
| BUMPING LAKE INFLOW | APR-SEP | 120 | 141 | 146 | 108 | 152 | 171 | 136 |
| | APR-JUL | 121 | 129 | 134 | 108 | 139 | 146 | 124 |
| | APR-JUN | 94 | 103 | 109 | 105 | 116 | 125 | 104 |
| AMERICAN RIVER near Nile | APR-SEP | 117 | 124 | 129 | 109 | 134 | 142 | 118 |
| | APR-JUL | 107 | 114 | 119 | 109 | 123 | 130 | 109 |
| | APR-JUN | 84 | 93 | 98 | 107 | 104 | 113 | 92 |
| RIMROCK LAKE INFLOW | APR-SEP | 210 | 245 | 255 | 107 | 265 | 300 | 238 |
| | APR-JUL | 200 | 210 | 218 | 109 | 225 | 235 | 200 |
| | APR-JUN | 153 | 166 | 175 | 108 | 183 | 196 | 162 |
| NACHES near Naches | APR-SEP | 775 | 860 | 890 | 107 | 920 | 1020 | 832 |
| | APR-JUL | 745 | 790 | 818 | 108 | 845 | 890 | 755 |
| | APR-JUN | 630 | 680 | 709 | 109 | 740 | 785 | 651 |
| AHTANUM CREEK nr Tampico (2) | APR-SEP | 27 | 37 | 44 | 96 | 51 | 61 | 46 |
| | APR-JUL | 25 | 35 | 41 | 97 | 47 | 56 | 42 |
| | APR-JUN | 22 | 30 | 35 | 97 | 40 | 48 | 36 |
| YAKIMA near Parker | APR-SEP | 1600 | 1830 | 1900 | 95 | 1970 | 2190 | 1994 |
| | APR-JUL | 1600 | 1690 | 1750 | 97 | 1810 | 1900 | 1805 |
| | APR-JUN | 1410 | 1500 | 1565 | 98 | 1630 | 1720 | 1597 |
| KLICKITAT near Glenwood | APR-JUN | 109 | 118 | 124 | 113 | 130 | 139 | 110 |
| | APR-SEP | 128 | 141 | 150 | 107 | 159 | 172 | 140 |

| YAKIMA RIVER BASIN | | | | | YAKIMA RIVER BASIN | | | |
|--|-----------------|------------------------|-----------|-------|---|----------------------|-------------------|---------|
| Reservoir Storage (1000 AF) - End of March | | | | | Watershed Snowpack Analysis - April 1, 1995 | | | |
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| KEECHELUS | 157.8 | 130.7 | 65.4 | 110.0 | Yakima River | 21 | 130 | 109 |
| KACHESS | 239.0 | 130.9 | 69.8 | 187.0 | Ahtanum Creek | 2 | 145 | 129 |
| CLE ELUM | 436.9 | 246.0 | 87.0 | 290.0 | | | | |
| BUMPING LAKE | 33.7 | 8.1 | 13.8 | 11.0 | | | | |
| RIMROCK | 198.0 | 164.4 | 61.2 | 142.0 | | | | |

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

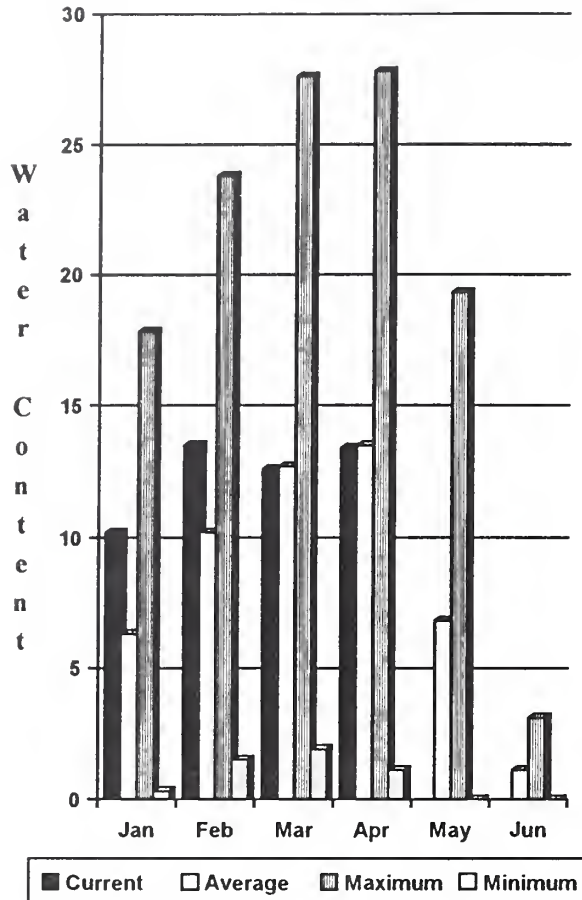
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

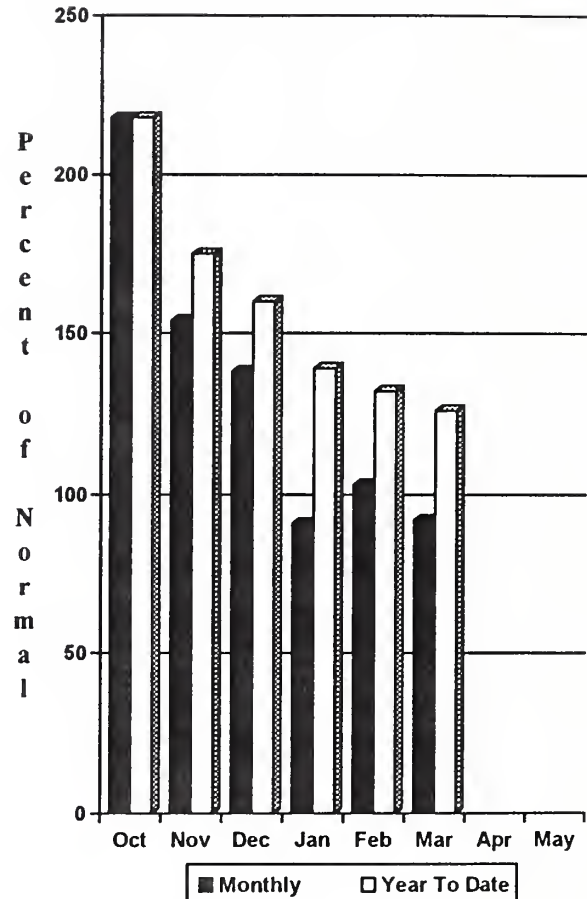
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Walla Walla River Basin

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

March precipitation was 92% of average, bringing the year-to-date precipitation to 126% of normal. April 1 snowpack was at 99% of normal. The forecast is for 92% of average streamflow in the Walla Walla River for the coming summer, 95% for the Grande Ronde at Troy, and 99% for Mill Creek. March streamflow was 174% of normal for the Walla Walla River, 104% for the Snake River, and 149% on the Grande Ronde River near Troy. The Touchet SNOTEL site had 32.3 inches of water equivalent, compared to the normal April 1 reading of 31.9 inches. Temperatures were average for March.

For more information contact your local Natural Resources Conservation Service office.

WALLA WALLA RIVER BASIN Streamflow Forecasts - April 1, 1995

| | | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
|------------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| GRANDE RONDE at Troy (1) | APR-JUL | 780 | 1010 | 1120 | 92 | 1230 | 1460 | 1214 |
| | APR-SEP | 870 | 1130 | 1240 | 95 | 1360 | 1610 | 1312 |
| SNAKE blw Lower Granite Dam (1,2) | APR-JUL | 14100 | 17500 | 19000 | 88 | 20500 | 23900 | 21650 |
| | APR-SEP | 15900 | 19700 | 21400 | 88 | 23100 | 26900 | 24360 |
| MILL CREEK at Walla Walla | APR-SEP | 11.0 | 14.6 | 17.0 | 99 | 19.4 | 23 | 17.1 |
| | APR-JUL | 10.8 | 14.4 | 16.8 | 99 | 19.2 | 23 | 16.9 |
| | APR-JUN | 10.7 | 14.2 | 16.6 | 99 | 19.0 | 23 | 16.7 |
| SF WALLA WALLA nr Milton Freewater | APR-JUL | 41 | 46 | 49 | 92 | 52 | 57 | 53 |
| COLUMBIA R. at The Dalles (2) | APR-SEP | 74200 | 82000 | 87300 | 88 | 92600 | 100000 | 98982 |
| | APR-JUL | 62700 | 69400 | 73900 | 87 | 78400 | 85100 | 84760 |
| | APR-JUN | 50900 | 56300 | 60000 | 87 | 63700 | 69100 | 68925 |

| WALLA WALLA RIVER BASIN Reservoir Storage (1000 AF) - End of March | | | | | WALLA WALLA RIVER BASIN Watershed Snowpack Analysis - April 1, 1995 | | | |
|---|-----------------|------------------------|-----------|-----|--|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| | | | | | | | | |
| | | | | | Mill Creek | 2 | 120 | 99 |

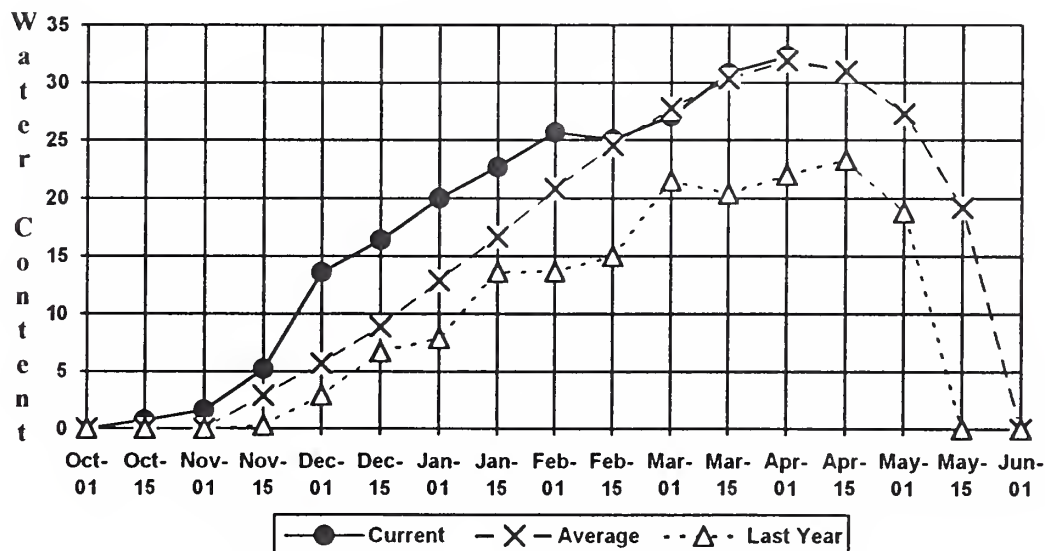
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

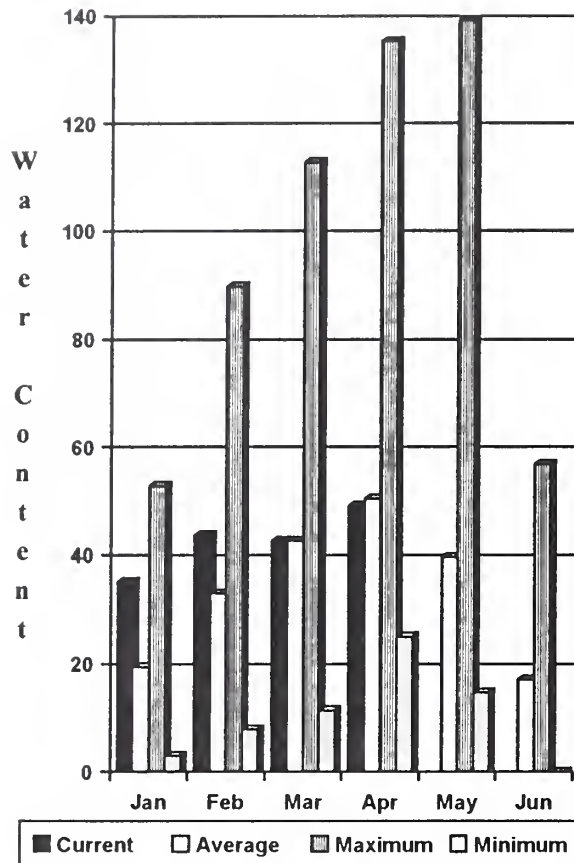
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Touchet #2 SNOTEL Elevation 5530 ft.

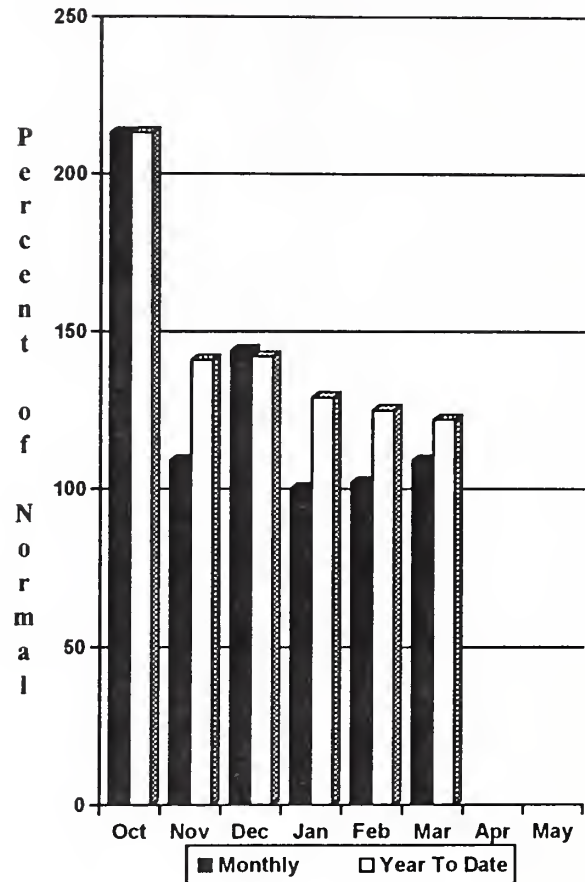


Cowlitz - Lewis River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

The Lewis River is forecast for normal flows this summer. The Cowlitz River is forecast for 93% of normal runoff. March streamflow on the Cowlitz River was 110% of average, and 95% on the Lewis River. March precipitation was 109% of normal, bringing the precipitation down slightly to 122% of average for the water year. April 1 snowcover for the Cowlitz River was 99% and the the Lewis River had 96% of average. The Paradise Park SNOTEL recorded the most water content for the basin with 72.5 inches of water. Normal April 1 water content is 62.1 inches. Temperatures were 1 degree above normal for March.

For more information contact your local Natural Resources Conservation Service office.

COWLITZ - LEWIS RIVER BASINS

Streamflow Forecasts - April 1, 1995

| | | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
|--------------------------------|-----------------|--|-----------------|--|-----------------|-----------------|------|------------|
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) (% AVG.) | 30% (1000AF) | 10% (1000AF) | | |
| | | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) (% AVG.) | 30% (1000AF) | 10% (1000AF) | | |
| LEWIS RIVER at Ariel (2) | APR-SEP | 805 | 1080 | 1210 | 100 | 1340 | 1610 | 1204 |
| | APR-JUL | 760 | 930 | 1050 | 100 | 1170 | 1340 | 1051 |
| | APR-JUN | 680 | 830 | 935 | 100 | 1040 | 1190 | 933 |
| COWLITZ R. bl Mayfield Dam (2) | APR-SEP | 965 | 1510 | 1830 | 93 | 2150 | 2700 | 1970 |
| | APR-JUL | 920 | 1330 | 1610 | 93 | 1890 | 2300 | 1731 |
| | APR-JUN | 800 | 1150 | 1390 | 94 | 1630 | 1980 | 1477 |
| COWLITZ R. at Castle Rock (2) | APR-SEP | 1250 | 2060 | 2450 | 92 | 2840 | 3650 | 2667 |
| | APR-JUL | 1300 | 1800 | 2140 | 92 | 2480 | 2980 | 2325 |
| | APR-JUN | 1140 | 1570 | 1860 | 93 | 2150 | 2580 | 1995 |
| KLUICKITAT near Glenwood | APR-JUN | 109 | 118 | 124 | 113 | 130 | 139 | 110 |
| | APR-SEP | 128 | 141 | 150 | 107 | 159 | 172 | 140 |

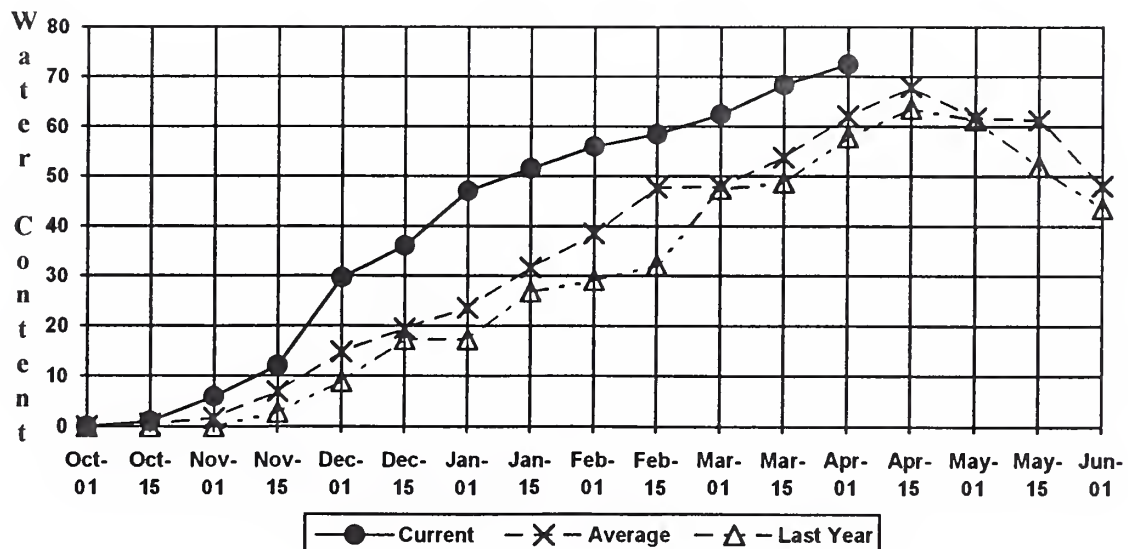
| COWLITZ - LEWIS RIVER BASINS Reservoir Storage (1000 AF) - End of March | | | | | COWLITZ - LEWIS RIVER BASINS Watershed Snowpack Analysis - April 1, 1995 | | | |
|--|-----------------|------------------------|-----------|-----|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| | | | | | Cowlitz River | 7 | 116 | 99 |
| | | | | | Lewis River | 4 | 106 | 96 |

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

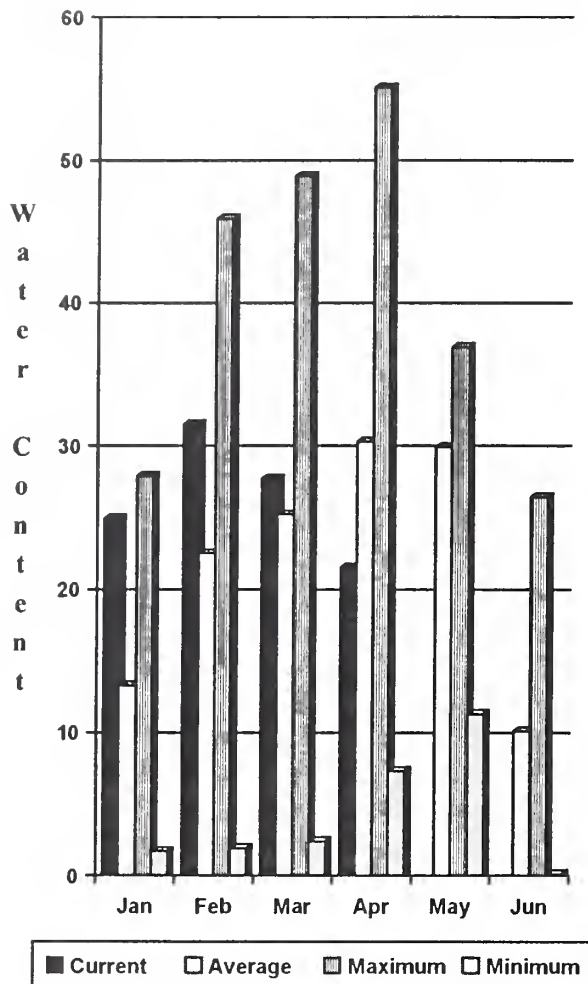
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural flow - actual flow may be affected by upstream water management.

Paradise SNOTEL Elevation 5120 ft.

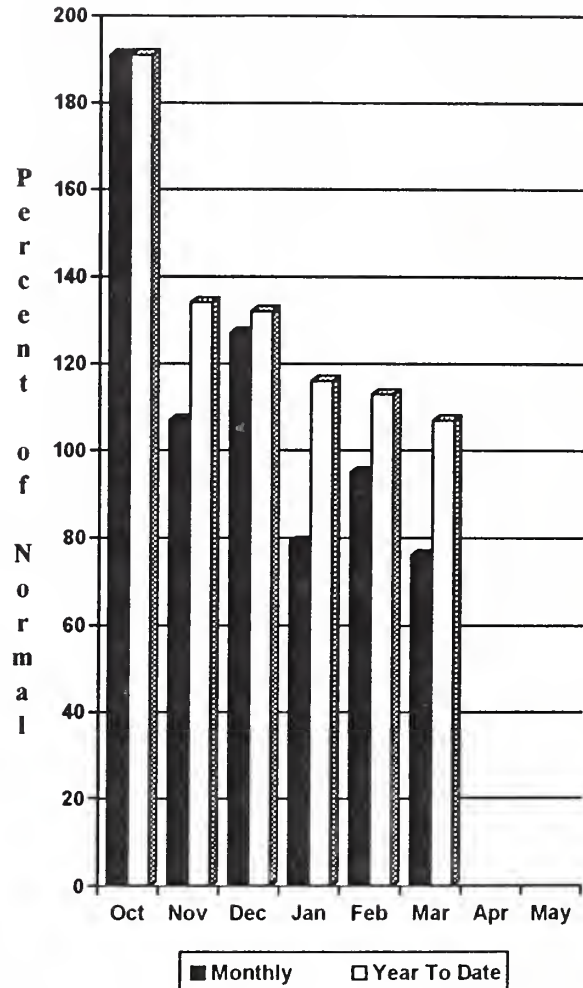


White - Green - Cedar River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

Summer runoff is forecast to be 74% of normal for the Green River, 83% for the Cedar River near Cedar Falls, 81% for the Rex River, 92% for the South Fork of the Tolt River, and 78% for the Cedar River at Cedar Falls. April 1 snowpack was 120% of normal in the White River Basin and 69% in the Green River Basin and only 24% of average at two snow courses in the Cedar River Basin. Water content on April 1 at the Morse Lake SNOTEL near Chinook Pass on the White River, at an elevation of 5400 feet, was 71.5 inches. This site has an April 1 average of 47.2 inches. March precipitation was 76% of normal, bringing the water year-to-date to 107% of average. National Weather Service reported temperatures at Stampede Pass to be 1 degree above average for March.

For more information contact your local Natural Resources Conservation Service office.

WHITE - GREEN - CEDAR RIVER BASINS

Streamflow Forecasts - April 1, 1995

| | | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
|-------------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| Forecast Point | Forecast Period | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| GREEN RIVER below Howard Hanson Dam | APR-JUL | 142 | 172 | 192 | 75 | 210 | 240 | 257 |
| | APR-SEP | 159 | 189 | 210 | 74 | 230 | 260 | 285 |
| | APR-JUN | 130 | 157 | 176 | 75 | 195 | 220 | 234 |
| CEDAR RIVER near Cedar Falls | APR-JUL | 49 | 57 | 63 | 82 | 69 | 77 | 77 |
| | APR-SEP | 55 | 64 | 70 | 83 | 76 | 85 | 85 |
| | APR-JUN | 45 | 52 | 57 | 84 | 63 | 70 | 68 |
| REX RIVER near Cedar Falls | APR-JUL | 16.0 | 20 | 22 | 81 | 25 | 28 | 27 |
| | APR-SEP | 19.0 | 22 | 24 | 81 | 27 | 30 | 30 |
| | APR-JUN | 15.0 | 18.0 | 21 | 82 | 23 | 26 | 25 |
| CEDAR RIVER at Cedar Falls | APR-JUL | 43 | 55 | 64 | 78 | 73 | 85 | 82 |
| | APR-SEP | 46 | 57 | 65 | 78 | 72 | 84 | 83 |
| | APR-JUN | 41 | 54 | 62 | 78 | 71 | 83 | 80 |
| SOUTH FORK TOLT near Index | APR-JUL | 11.4 | 12.8 | 13.8 | 91 | 14.8 | 16.2 | 15.2 |
| | APR-SEP | 13.3 | 15.2 | 16.4 | 92 | 17.6 | 19.5 | 17.8 |
| | APR-JUN | 9.3 | 10.9 | 11.9 | 91 | 12.9 | 14.5 | 13.1 |

| WHITE - GREEN RIVER BASINS Reservoir Storage (1000 AF) - End of March | | | | | WHITE - GREEN RIVER BASINS Watershed Snowpack Analysis - April 1, 1995 | | | |
|--|-----------------|------------------------|-----------|-----|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| | | | | | White River | 3 | 137 | 120 |
| | | | | | Green River | 7 | 107 | 69 |
| | | | | | Cedar River | 2 | 96 | 24 |

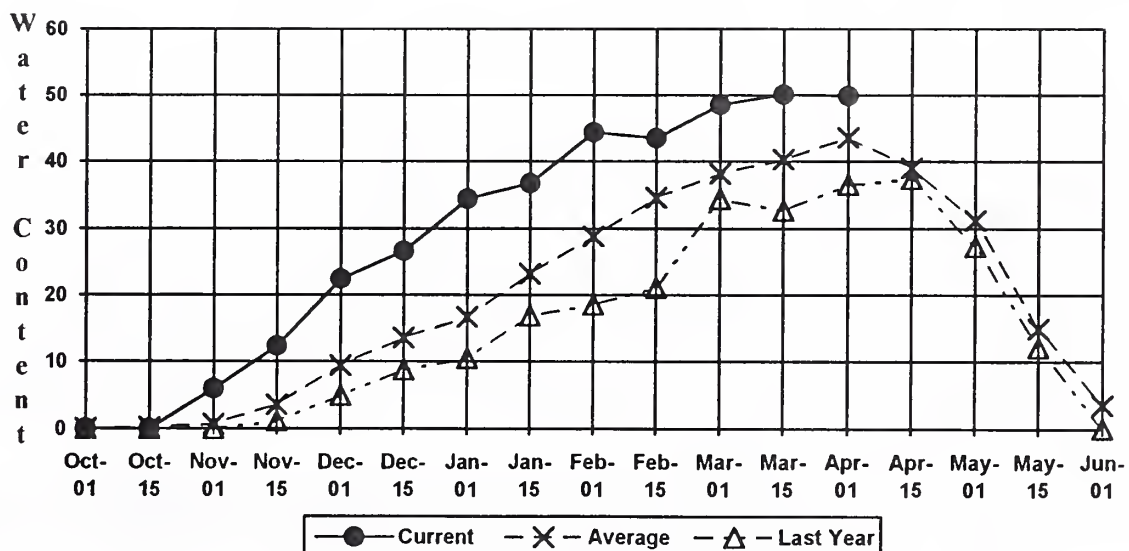
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural flow - actual flow may be affected by upstream water management.

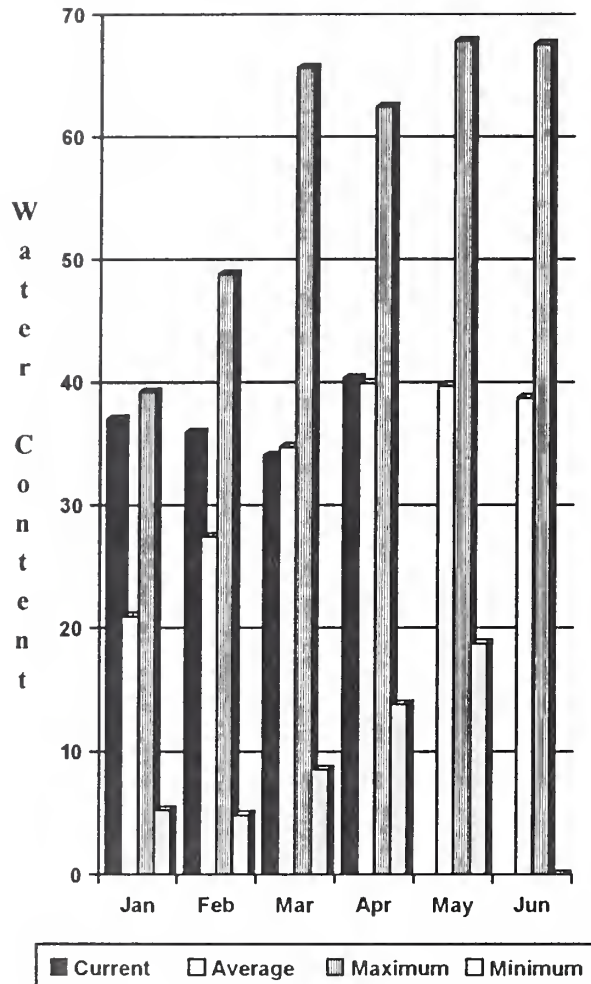
Stampede Pass SNOTEL

Elevation 3860 ft.

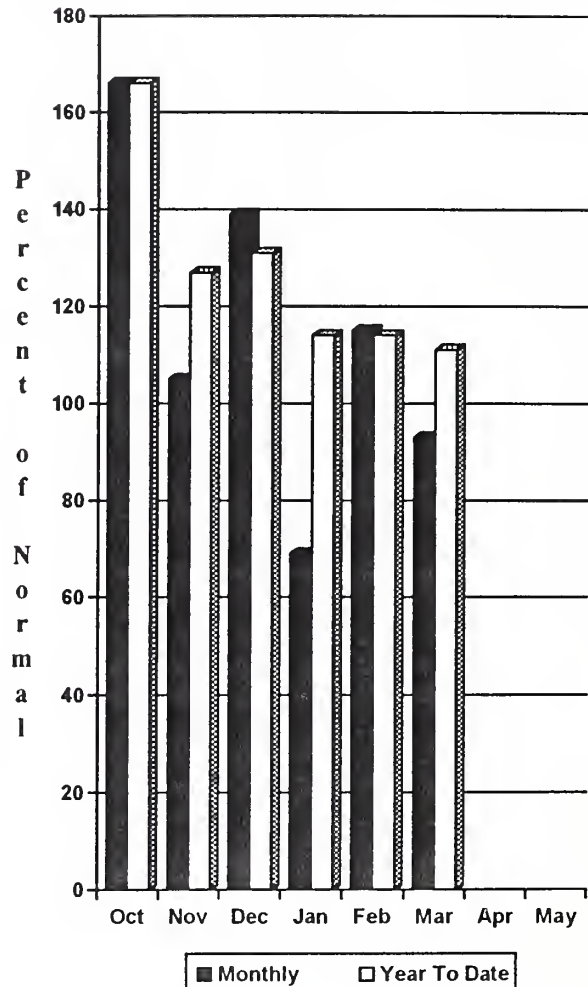


North Puget Sound River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

Forecast for the Skagit River streamflow is for 109% of normal for the spring and summer period. March streamflow in the Skagit River was 124% of average. Other forecast points include the Baker River at 98% and Thunder Creek at 100% of average. Basin - wide precipitation for March was 93% of average. Water year - to - date remains at 111% of normal. April 1 snow cover in the Skagit River Basin was 112%, the Baker River Basin was 100% and the Snohomish River Basin was 90% of average. Rainy Pass SNOTEL, at 4780 feet, had 52.6 inches of water content. Normal April 1 water content is 38 inches. April 1 reservoir storage showed Ross Lake at 213% normal and 45% of capacity. March temperatures were near normal.

For more information contact your local Natural Resources Conservation Service office.

NORTH PUGET SOUND RIVER BASINS

Streamflow Forecasts - April 1, 1995

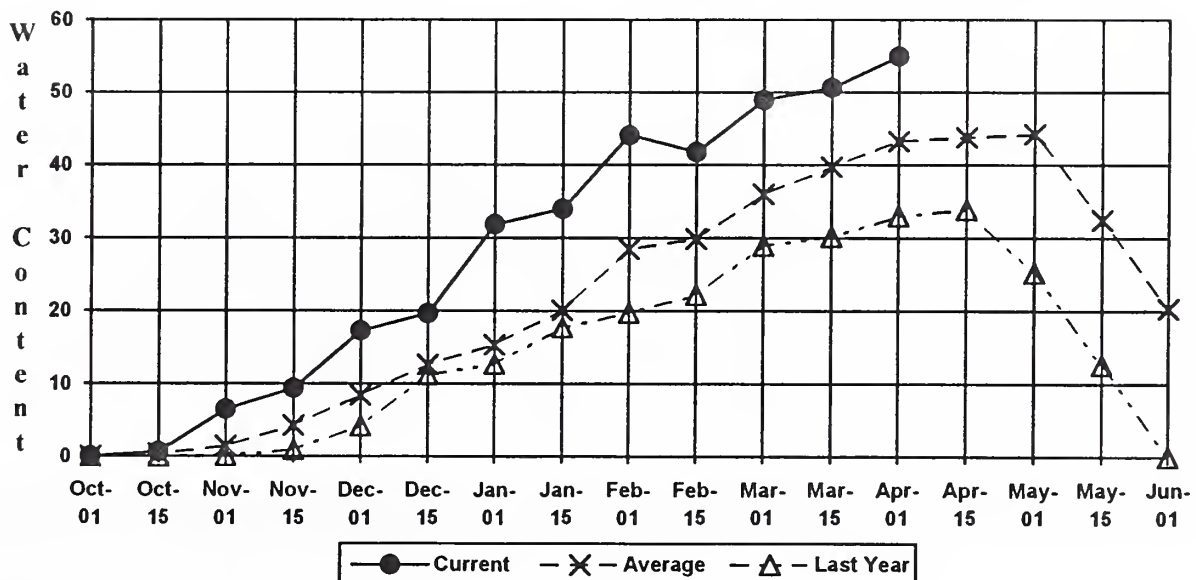
| Forecast Point | Forecast Period | <<----- Drier ----->> | | Future Conditions | | ----- Wetter ----->> | | 30-Yr Avg. (1000AF) |
|------------------------------|-----------------|-----------------------|-----------------|--|-----|----------------------|-----------------|------------------------|
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) (% AVG.) | * | 30% (1000AF) | 10% (1000AF) | |
| THUNDER CREEK near Newhalem | APR-JUL | 205 | 220 | 229 | 99 | 240 | 255 | 230 |
| | APR-SEP | 300 | 320 | 328 | 100 | 340 | 355 | 328 |
| | APR-JUN | 117 | 133 | 143 | 96 | 154 | 169 | 149 |
| SKAGIT RIVER at Newhalem (2) | APR-SEP | 2020 | 2230 | 2380 | 109 | 2530 | 2740 | 2185 |
| | APR-JUL | 1710 | 1890 | 2010 | 110 | 2130 | 2310 | 1830 |
| | APR-JUN | 1320 | 1460 | 1550 | 110 | 1640 | 1780 | 1410 |
| BAKER RIVER near Concrete | APR-JUL | 740 | 800 | 838 | 100 | 880 | 940 | 836 |
| | APR-SEP | 920 | 990 | 1040 | 98 | 1090 | 1160 | 1064 |
| | APR-JUN | 510 | 570 | 610 | 100 | 650 | 710 | 611 |

| NORTH PUGET SOUND RIVER BASINS Reservoir Storage (1000 AF) - End of March | | | | | NORTH PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - April 1, 1995 | | | |
|--|-----------------|------------------------|-----------|-------|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| ROSS | 1404.1 | 636.2 | 786.0 | 298.0 | Snohomish River | 6 | 117 | 90 |
| DIABLO RESERVOIR | 90.6 | 84.7 | 85.3 | --- | Skagit River | 14 | 163 | 112 |
| GORGE RESERVOIR | | NO REPORT | | | Baker River | 9 | 140 | 100 |

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.
The average is computed for the 1961-1990 base period.

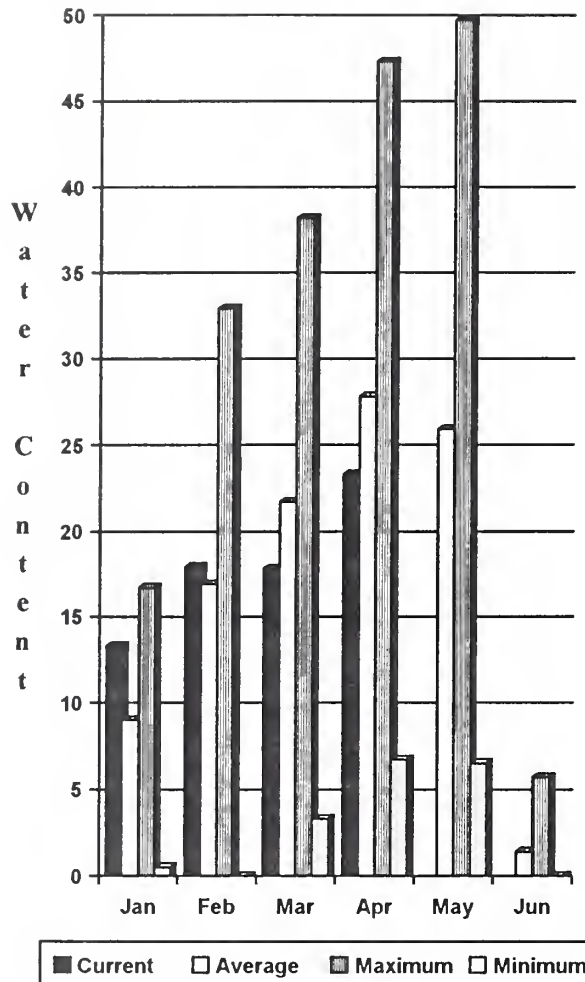
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Rainy Pass SNOTEL Elevation 4780 ft.

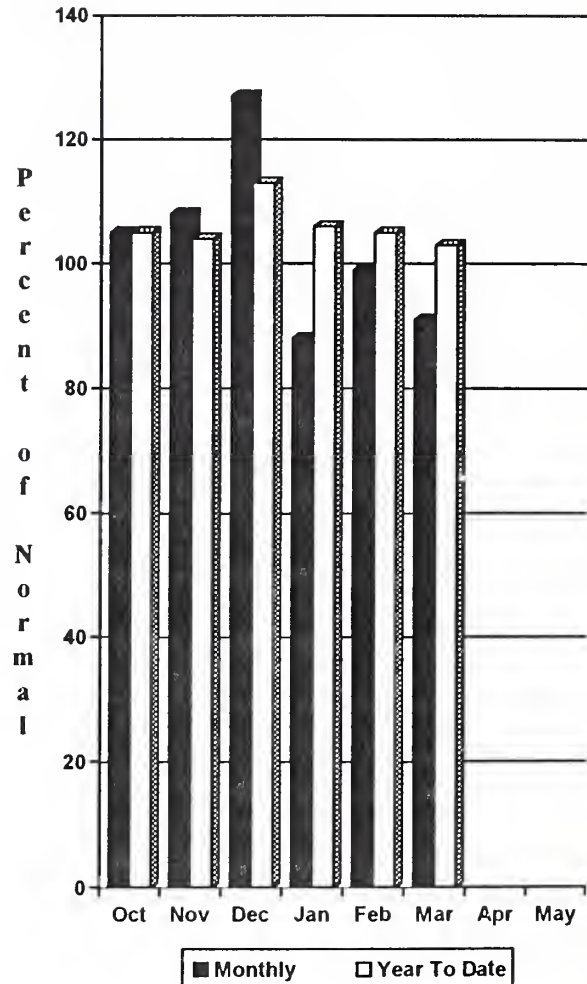


Olympic Peninsula River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

April forecasts of runoff for streamflow in the basin are for 87% of average for the Dungeness River and 86% of normal for the Elwha River. March precipitation was 91% of average. Precipitation has accumulated at 103% of normal for the water year. March precipitation at Quillayute was 9.9 inches, which is slightly below normal at 90% of average. Average April 1 snow cover in the Olympic Basin varied as follows; Elwa River, 59%, Morse Creek, 96%, Dungeness River, 69%, and the Quilcene River, 111%. The Mount Crag SNOTEL near Quilcene had 35 inches of snow water equivalent on April 1. Normal for this site is 31.5 inches. Temperatures at Quillayute were 1.5 degrees above normal for March.

For more information contact your local Natural Resources Conservation Service office.

OLYMPIC PENINSULA RIVER BASINS Streamflow Forecasts - April 1, 1995

| Forecast Point | Forecast Period | <<===== Drier ===== | | Future Conditions ===== | | Wetter =====>> | | 30-Yr Avg. (1000AF) |
|-----------------------------|-----------------|---------------------|-----------------|--|----|-----------------|-----------------|------------------------|
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) (% AVG.) | | 30% (1000AF) | 10% (1000AF) | |
| DUNGENESS RIVER nr Sequim | APR-SEP | 114 | 129 | 139 | 87 | 149 | 164 | 160 |
| | APR-JUL | 96 | 108 | 116 | 89 | 125 | 137 | 131 |
| | APR-JUN | 72 | 81 | 87 | 89 | 93 | 102 | 98 |
| ELWHA RIVER nr Port Angeles | APR-SEP | 345 | 395 | 433 | 86 | 470 | 520 | 502 |
| | APR-JUL | 295 | 335 | 365 | 88 | 395 | 435 | 417 |

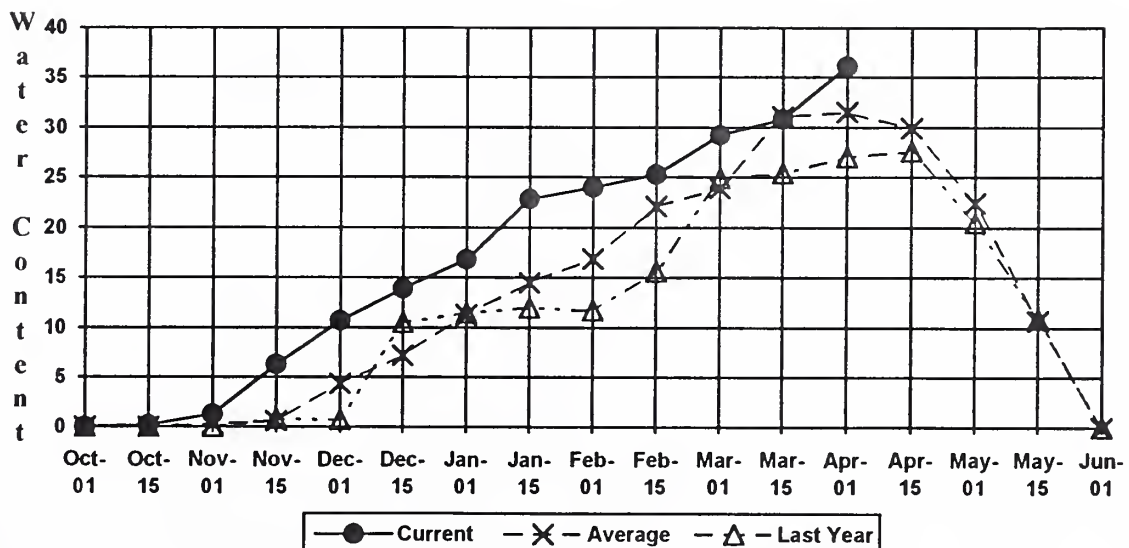
| OLYMPIC PENINSULA RIVER BASINS Reservoir Storage (1000 AF) - End of March | | | | | OLYMPIC PENINSULA RIVER BASINS Watershed Snowpack Analysis - April 1, 1995 | | | |
|--|-----------------|------------------------|-----------|-----|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| | | | | | Elwha River | 1 | 88 | 59 |
| | | | | | Morse Creek | 1 | 118 | 96 |
| | | | | | Dungeness River | 1 | 111 | 69 |
| | | | | | Quilcene River | 1 | 130 | 111 |
| | | | | | Wynoochee River | 0 | 0 | 0 |

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Mount Crag SNOTEL Elevation 4050 ft.



In addition to basin outlook reports, a Water Supply Forecast for the Western United States is published by the Natural Resources Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Natural Resources Conservation Service, West National Technical Center, 101 SW Main Street, Suite 1700, Portland, OR 97204-3225.

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The Following Organizations Cooperate With the Natural Resources Conservation Service in Snow Survey Work*:

Canada

Ministry of the Environment
Investigations Branch, Victoria, British Columbia

State

Washington State Department of Ecology
Washington State Department of Natural Resources

Federal

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service
Bureau of Indian Affairs

Local

City of Tacoma
City of Seattle
Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company
Snohomish County P.U.D.
Colville Confederated Tribes
Spokane County
Yakama Indian Nation

Private

Okanogan Irrigation District
Wenatchee Heights Irrigation District
Newman Lake Homeowners Association

*Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



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